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* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	APR 02	CAS Registry Number Crossover Limits Increased to 500,000 in Key STN Databases
NEWS	3	APR 02	PATDPAFULL: Application and priority number formats enhanced
NEWS	4	APR 02	DWPI: New display format ALLSTR available
NEWS	5	APR 02	New Thesaurus Added to Derwent Databases for Smooth Sailing through U.S. Patent Codes
NEWS	6	APR 02	EMBASE Adds Unique Records from MEDLINE, Expanding Coverage back to 1948
NEWS	7	APR 07	50,000 World Traditional Medicine (WTM) Patents Now Available in CAPLUS
NEWS	8	APR 07	MEDLINE Coverage Is Extended Back to 1947
NEWS	9	JUN 16	WPI First View (File WPIFV) will no longer be available after July 30, 2010
NEWS	10	JUN 18	DWPI: New coverage - French Granted Patents
NEWS	11	JUN 18	CAS and FIZ Karlsruhe announce plans for a new STN platform
NEWS	12	JUN 18	IPC codes have been added to the INSPEC backfile (1969-2009)
NEWS	13	JUN 21	Removal of Pre-IPC 8 data fields streamline displays in CA/CAPLUS, CASREACT, and MARPAT
NEWS	14	JUN 21	Access an additional 1.8 million records exclusively enhanced with 1.9 million CAS Registry Numbers -- EMBASE Classic on STN
NEWS	15	JUN 28	Introducing "CAS Chemistry Research Report": 40 Years of Biofuel Research Reveal China Now Atop U.S. in Patenting and Commercialization of Bioethanol
NEWS	16	JUN 29	Enhanced Batch Search Options in DGENE, USGENE, and PCTGEN
NEWS	17	JUL 19	Enhancement of citation information in INPADOC databases provides new, more efficient competitor analyses
NEWS	18	JUL 26	CAS coverage of global patent authorities has expanded to 61 with the addition of Costa Rica
NEWS	19	SEP 15	MEDLINE Cited References provide additional relevant records with no additional searching.
NEWS	20	OCT 04	Removal of Pre-IPC 8 data fields streamlines displays in USPATFULL, USPAT2, and USPATOLD.
NEWS	21	OCT 04	Precision of EMBASE searching enhanced with new chemical name field

10/578,352

11/24/2010

STN: SEARCH

NEWS 22 OCT 06 Increase your retrieval consistency with new formats or
for Taiwanese application numbers in CA/CAPplus.
NEWS 23 OCT 21 CA/CAPplus kind code changes for Chinese patents
increase consistency, save time
NEWS 24 OCT 22 New version of STN Viewer preserves custom
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saved in .rtf format
NEWS 25 OCT 28 INPADOCDB/INPAFAMDB: Enhancements to the US national
patent classification.
NEWS 26 NOV 03 New format for Korean patent application numbers in
CA/CAPplus increases consistency, saves time.
NEWS 27 NOV 04 Selected STN databases scheduled for removal on
December 31, 2010
NEWS 28 NOV 18 PROUSDDR and SYNTHLINE Scheduled for Removal
December 31, 2010 by Request of Prous Science
NEWS 29 NOV 22 Higher System Limits Increase the Power of STN
Substance-Based Searching
NEWS 30 NOV 22 Enjoy a free month of INPADOCDB/INPAFAMDB SDIs!
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backfile extension to 1946

NEWS EXPRESS FEBRUARY 15 10 CURRENT WINDOWS VERSION IS V8.4.2,
AND CURRENT DISCOVER FILE IS DATED 07 JULY 2010.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 08:52:41 ON 24 NOV 2010

=> FILE REG

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.22	0.22

FILE 'REGISTRY' ENTERED AT 08:53:05 ON 24 NOV 2010

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STRUCTURE FILE UPDATES: 23 NOV 2010 HIGHEST RN 1254155-96-8
DICTIONARY FILE UPDATES: 23 NOV 2010 HIGHEST RN 1254155-96-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2010.

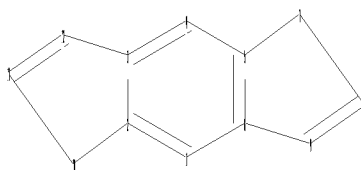
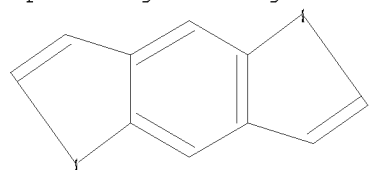
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\Stnexp\Queries\GL0001.str



ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12

ring bonds :

1-2 1-6 2-3 2-10 3-4 3-12 4-5 5-6 5-7 6-9 7-8 8-9 10-11 11-12

exact/norm bonds :

2-10 3-12 5-7 6-9 7-8 8-9 10-11 11-12

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6

Match level :

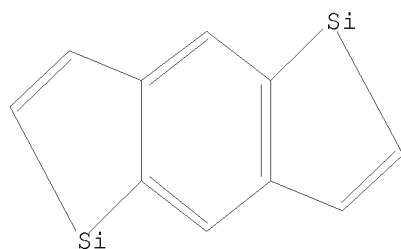
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom

L1 STRUCTURE UPLOADED

=> D L1

L1 HAS NO ANSWERS

L1 STR



10/578,352 11/24/2010 STN: SEARCH

Structure attributes must be viewed using STN Express query preparation.

=> S L1 FULL
FULL SEARCH INITIATED 08:54:16 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4743 TO ITERATE

100.0% PROCESSED 4743 ITERATIONS 72 ANSWERS
SEARCH TIME: 00.00.01

L2 72 SEA SSS FUL L1

=> FILE CAPLUS
COST IN U.S. DOLLARS SINCE FILE TOTAL
 ENTRY SESSION
FULL ESTIMATED COST 192.03 192.25

FILE 'CAPLUS' ENTERED AT 08:54:27 ON 24 NOV 2010
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FILE COVERS 1907 - 24 Nov 2010 VOL 153 ISS 22
FILE LAST UPDATED: 23 Nov 2010 (20101123/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2010
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2010

Caplus now includes complete International Patent Classification (IPC) reclassification data for the fourth quarter of 2010.

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S L2
L3 20 L2

=> D L3 IBIB ABS HITSTR 1-20

L3 ANSWER 1 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2010:1204027 CAPLUS
DOCUMENT NUMBER: 153:555241

TITLE: Rhodium-Catalyzed Synthesis of Silafluorene Derivatives via Cleavage of Silicon-Hydrogen and Carbon-Hydrogen Bonds

AUTHOR(S): Ureshino, Tomonari; Yoshida, Takuya; Kuninobu, Yoichiro; Takai, Kazuhiko

CORPORATE SOURCE: Division of Chemistry and Biochemistry, Graduate School of Natural Science and Technology, Okayama University, Tsushima, Kita-ku, Okayama, 700-8530, Japan

SOURCE: Journal of the American Chemical Society (2010), 132(41), 14324-14326
CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

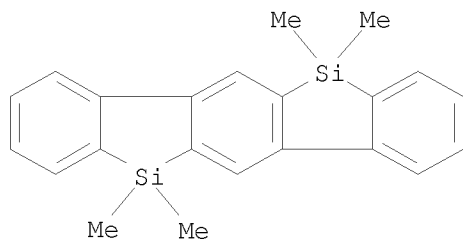
LANGUAGE: English

AB The rhodium-catalyzed synthesis of silafluorenes from biphenylhydrosilanes is described. This highly efficient reaction proceeds via both Si-H and C-H bond activation, producing only H₂ as a side product. Using this method, a ladder-type bis-silicon-bridged p-terphenyl could also be synthesized.

IT 959589-11-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(rhodium-catalyzed preparation of silafluorene derivs. via cleavage of silicon-hydrogen and carbon-hydrogen bonds)

RN 959589-11-8 CAPLUS

CN Benzo[1,2-b:4,5-b']bis[1]benzosilole, 5,11-dihydro-5,5,11,11-tetramethyl-
(CA INDEX NAME)



REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2010:1118903 CAPLUS

TITLE: Benzobis(silolothiophene)-Based Low Bandgap Polymers for Efficient Polymer Solar Cells

AUTHOR(S): Wang, Jie-Yu; Hau, Steven K.; Yip, Hin-Lap; Davies, Joshua A.; Chen, Kung-Shih; Zhang, Yong; Sun, Ying; Jen, Alex K.-Y.

CORPORATE SOURCE: Department of Materials Science and Engineering, University of Washington, Seattle, WA, 98195, USA

SOURCE: Chemistry of Materials ACS ASAP
CODEN: CMATEX; ISSN: 0897-4756

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Two novel low-bandgap copolymers were synthesized that contain a

thiophene-phenylene-thiophene fused rings, in which the linked carbon atoms are replaced by a dialkylsilyl group (i.e., benzobis(silolothiophene)-based polymers). The polymers were obtained by Stille coupling-type polymerization of the corresponding dialkylsilyl group-containing

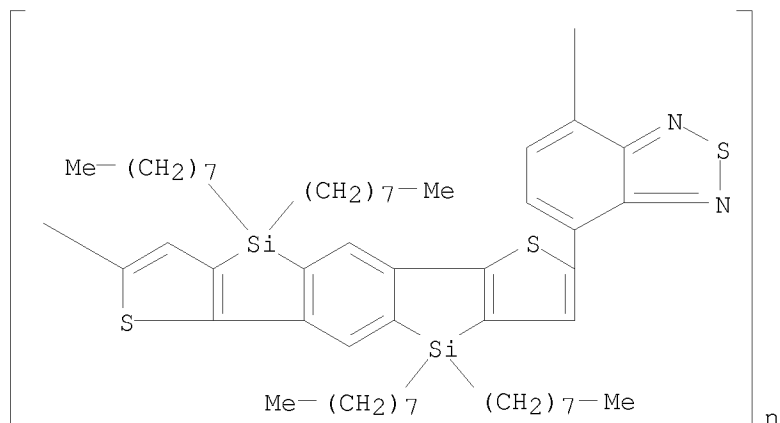
bis(trimethylstannanes) and the dibromothiadiazoles or the dibromobis(thienyl-substituted) thiadiazoles or the dibromobis(thienyl-substituted) thiadiazoles. The two polymers had low HOMO values and high hole mobilities (up to 0.01 cm^{sup.2}/V-s). Use of these polymers in bulk heterojunction solar cells showed a power conversion efficiency of .apprx.3.5%.

IT 1217503-13-3P 1248347-41-2P 1248347-42-3P
1248347-43-4P

RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(solar cells containing; benzobis(silolothiophene)-based low-band-gap polymers for polymer heterojunction solar cells)

RN 1217503-13-3 CAPLUS

CN Poly[2,1,3-benzothiadiazoled-4,7-diyl(4,9-dihydro-4,4,9,9-tetraoctylbenzo[1'',2'':4,5;4'',5'':4',5']bissilolo[3,2-b:3',2'-b']dithiophene-2,7-diyl)] (CA INDEX NAME)



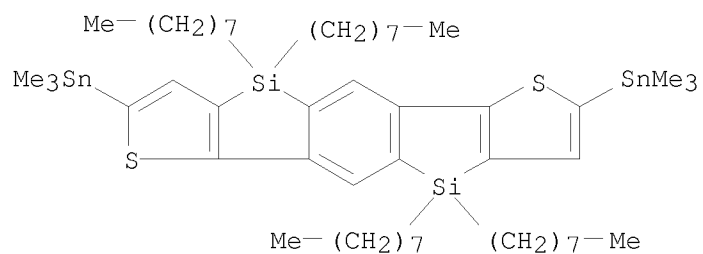
RN 1248347-41-2 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

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CRN 1248347-40-1

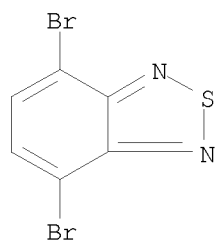
CMF C52 H90 S2 Si2 Sn2



CM 2

CRN 15155-41-6

CMF C6 H2 Br2 N2 S



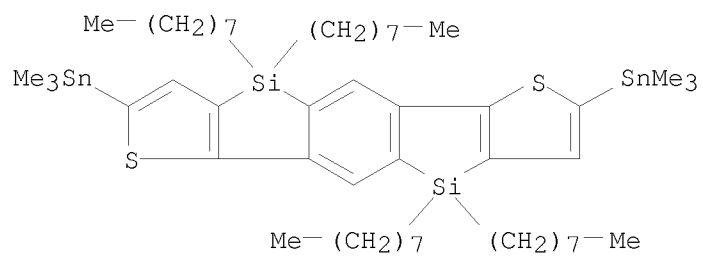
RN 1248347-42-3 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

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CRN 1248347-40-1

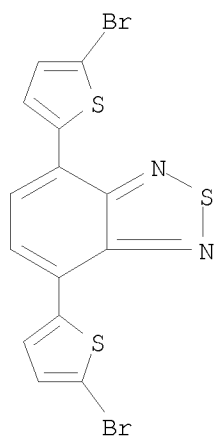
CMF C52 H90 S2 Si2 Sn2



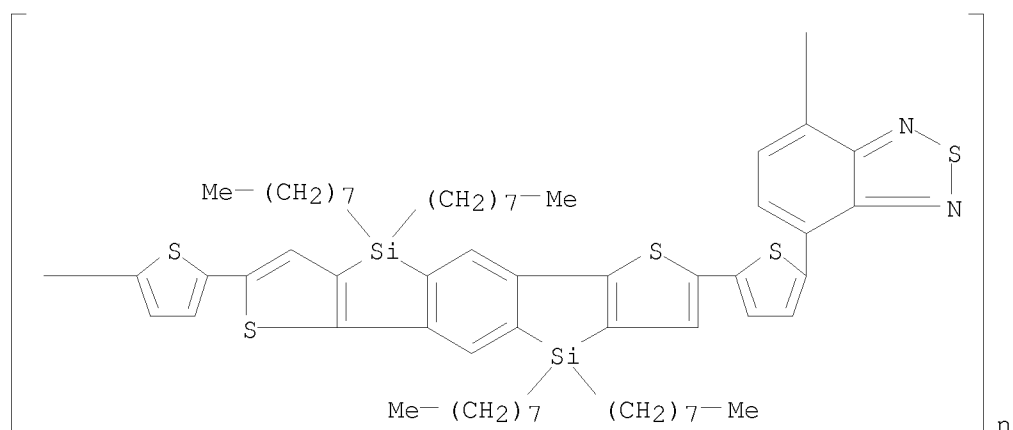
CM 2

CRN 288071-87-4

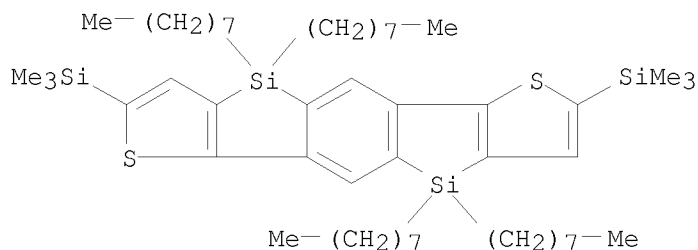
CMF C14 H6 Br2 N2 S3



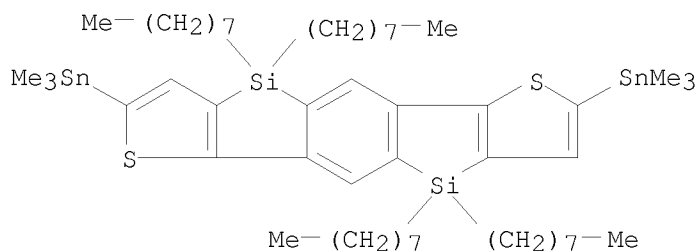
RN 1248347-43-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



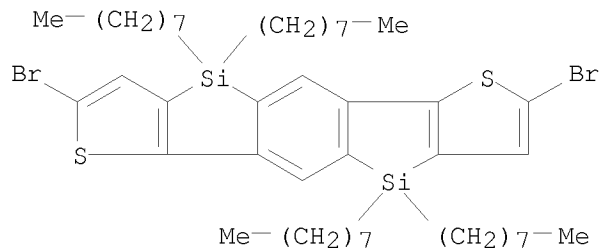
IT 1217503-08-6P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis and desilylation of; in synthesis of
benzobis(silolothiophene)-based low-band-gap polymers)
RN 1217503-08-6 CAPLUS
CN Benzo[1'',2'':4,5;4'',5'':4',5']bissilolo[3,2-b:3',2'-b']dithiophene,
4,9-dihydro-4,4,9,9-tetraoctyl-2,7-bis(trimethylsilyl)- (CA INDEX NAME)



IT 1248347-40-1P
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis and polymerization of; in synthesis of
 benzobis(silolothiophene)-based low-band-gap polymers)
 RN 1248347-40-1 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED



IT 1217503-09-7P
 RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (synthesis and trimethylstannylation of; in synthesis of
 benzobis(silolothiophene)-based low-band-gap polymers)
 RN 1217503-09-7 CAPLUS
 CN Benzo[1'',2'':4,5;4'',5'':4',5']bissilolo[3,2-b:3',2'-b']dithiophene,
 2,7-dibromo-4,9-dihydro-4,4,9,9-tetraoctyl- (CA INDEX NAME)



REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2010:381924 CAPLUS
 DOCUMENT NUMBER: 152:381994
 TITLE: Polymers derived from benzobis(silolothiophene) and their use as organic semiconductors
 INVENTOR(S): Tierney, Steven; Bailey, Clare; Mitchell, William; Blouin, Nicolas
 PATENT ASSIGNEE(S): Merck Patent GmbH, Germany
 SOURCE: PCT Int. Appl., 63pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2010031480	A1	20100325	WO 2009-EP6047	20090820
W:	AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, SM, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			

PRIORITY APPLN. INFO.: EP 2008-16527 A 20080919

OTHER SOURCE(S): CASREACT 152:381994

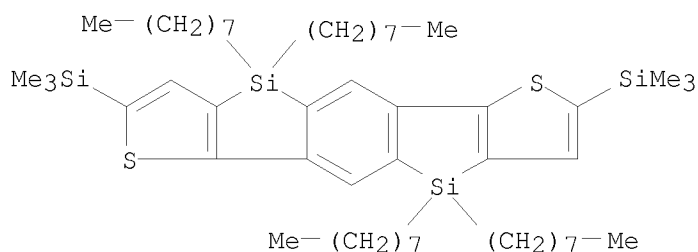
AB The invention relates to conjugated polymers comprising benzobis(silolothiophene) units or derivs. thereof, to methods of their preparation, to novel monomer units used therein, to the use of the polymers in organic electronic (OE) devices, and to OE devices comprising the polymers. Thus, 2,7-dibromo-5,5,10,10-tetraoctylbenzo[1'',2'':4,5;4'',5'':4',5']-bis(silolo[3,2-b:3',2'-b']thiophene) was prepared and copolymd. with 4,7-(2,1,3-benzothiadiazole) to give a conjugated polymers with Mw 8,600 g/mol, Mn 4,600 g/mol and λ_{\max} 510 nm.

IT 1217503-08-6P 1217503-10-0P
 RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(intermediate; production of polymers derived from benzobis(silolothiophene) for use as organic semiconductors)

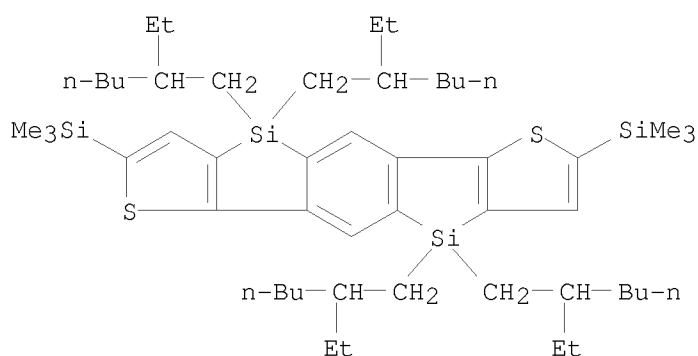
RN 1217503-08-6 CAPLUS

CN Benzo[1'',2'':4,5;4'',5'':4',5']bissilolo[3,2-b:3',2'-b']dithiophene, 4,9-dihydro-4,4,9,9-tetraoctyl-2,7-bis(trimethylsilyl)- (CA INDEX NAME)



RN 1217503-10-0 CAPLUS

CN Benzo[1'',2'':4,5;4'',5'':4',5']bissilolo[3,2-b:3',2'-b']dithiophene,
4,4,9,9-tetrakis(2-ethylhexyl)-4,9-dihydro-2,7-bis(trimethylsilyl)- (CA
INDEX NAME)



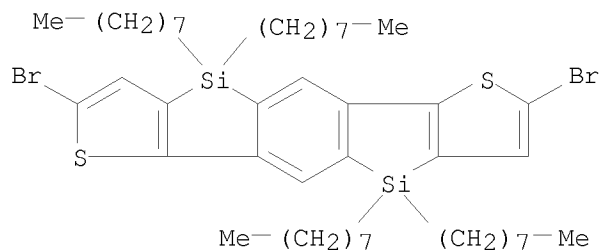
IT 1217503-09-7P 1217503-11-1P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(monomer; production of polymers derived from benzobis(silolothiophene) for use as organic semiconductors)

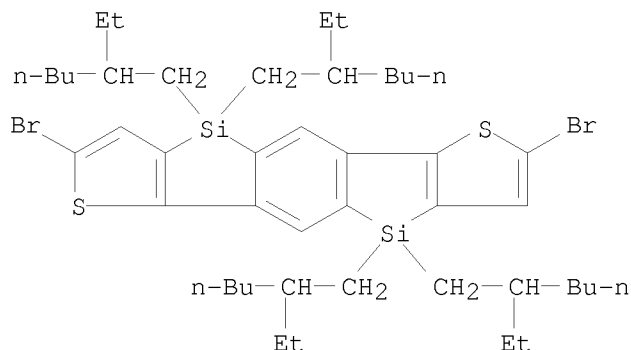
RN 1217503-09-7 CAPLUS

CN Benzo[1'',2'':4,5;4'',5'':4',5']bissilolo[3,2-b:3',2'-b']dithiophene,
2,7-dibromo-4,9-dihydro-4,4,9,9-tetraoctyl- (CA INDEX NAME)



RN 1217503-11-1 CAPLUS

CN Benzo[1'',2'':4,5;4'',5'':4',5']bissilolo[3,2-b:3',2'-b']dithiophene,
2,7-dibromo-4,4,9,9-tetrakis(2-ethylhexyl)-4,9-dihydro- (CA INDEX NAME)



IT 1217503-12-2P, 4,7-(2,1,3-Benzothiadiazole)-2,7-dibromo-5,5,10,10-tetraoctylbenzo[1'',2'':4,5;4'',5'':4',5']-bis(silolo[3,2-b:3',2'-b']thiophene) copolymer 1217503-13-3P, 4,7-(2,1,3-Benzothiadiazole)-2,7-dibromo-5,5,10,10-tetraoctylbenzo[1'',2'':4,5;4'',5'':4',5']-bis(silolo[3,2-b:3',2'-b']thiophene) copolymer, SRU 1217503-14-4P, 4,7-(2,1,3-Benzothiadiazole)-2,7-dibromo-5,5,10,10-tetra(2-ethylhexyl)benzo[1'',2'':4,5;4'',5'':4',5']-bis(silolo[3,2-b:3',2'-b']thiophene) copolymer 1217503-15-5P, 4,7-(2,1,3-Benzothiadiazole)-2,7-dibromo-5,5,10,10-tetra(2-ethylhexyl)benzo[1'',2'':4,5;4'',5'':4',5']-bis(silolo[3,2-b:3',2'-b']thiophene) copolymer, SRU
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (production of polymers derived from benzobis(silolothiophene) for use as organic semiconductors)

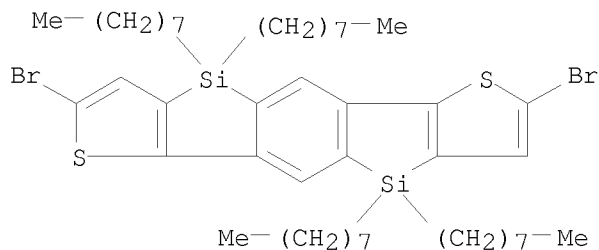
RN 1217503-12-2 CAPLUS

CN 2,1,3-Benzothiadiazole, 4,7-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-, polymer with 2,7-dibromo-4,9-dihydro-4,4,9,9-tetraoctylbenzo[1'',2'':4,5;4'',5'':4',5']bissilolo[3,2-b:3',2'-b']dithiophene (CA INDEX NAME)

CM 1

CRN 1217503-09-7

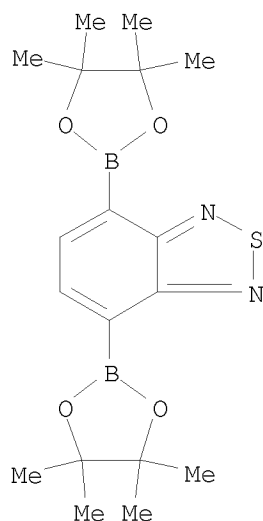
CMF C46 H72 Br2 S2 Si2



CM 2

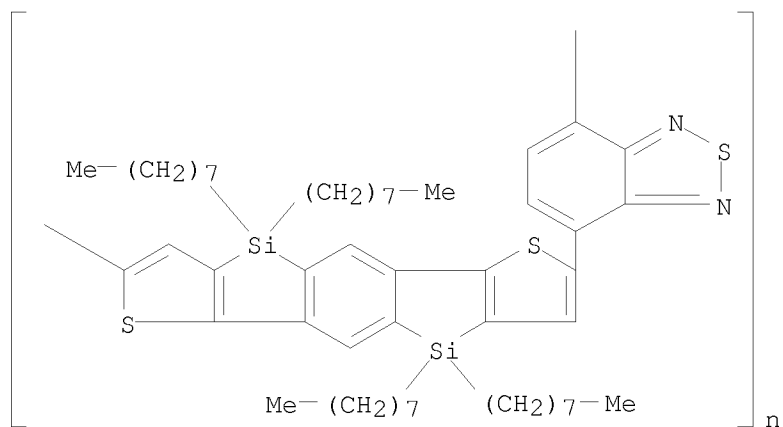
CRN 934365-16-9

CMF C18 H26 B2 N2 O4 S



RN 1217503-13-3 CAPLUS

CN Poly[2,1,3-benzothiadiazole-4,7-diyl(4,9-dihydro-4,4,9,9-tetraoctylbenzo[1'',2'':4,5;4'',5'':4',5']bissilolo[3,2-b:3',2'-b']dithiophene-2,7-diyl)] (CA INDEX NAME)



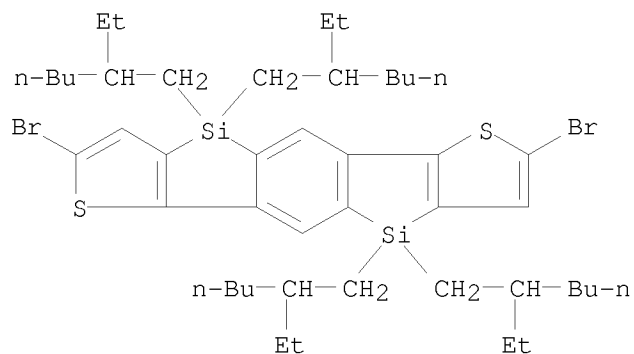
RN 1217503-14-4 CAPLUS

CN 2,1,3-Benzothiadiazole, 4,7-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-, polymer with 2,7-dibromo-4,4,9,9-tetrakis(2-ethylhexyl)-4,9-dihydrobenzo[1'',2'':4,5;4'',5'':4',5']bissilolo[3,2-b:3',2'-b']dithiophene (CA INDEX NAME)

CM 1

CRN 1217503-11-1

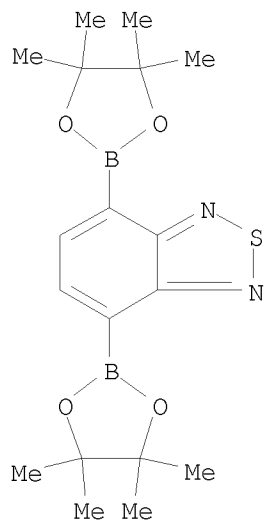
CMF C46 H72 Br2 S2 Si2



CM 2

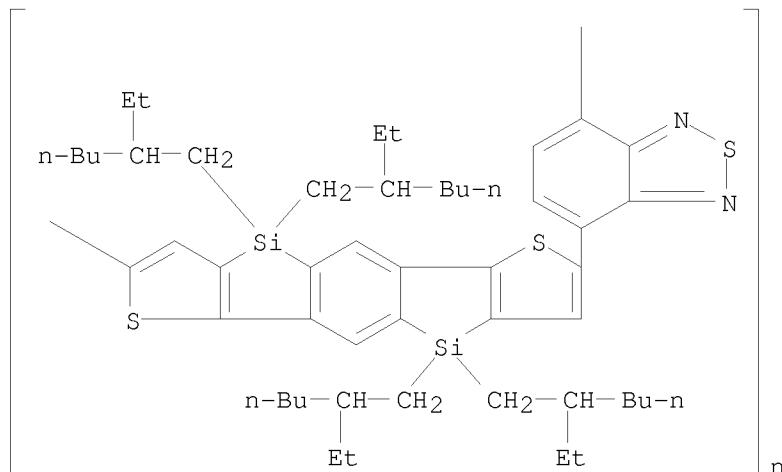
CRN 934365-16-9

CMF C18 H26 B2 N2 O4 S



RN 1217503-15-5 CAPLUS

CN Poly[2,1,3-benzothiadiazole-4,7-diyl[4,4,9,9-tetrakis(2-ethylhexyl)-4,9-dihydrobenzo[1'',2'':4,5;4'',5'':4',5']bissilolo[3,2-b:3',2'-b']dithiophene-2,7-diyl]] (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:1140587 CAPLUS

DOCUMENT NUMBER: 151:448483

TITLE: Development of a Sila-Friedel-Crafts Reaction and Its
Application to the Synthesis of Dibenzosilole
Derivatives

AUTHOR(S): Furukawa, Shunsuke; Kobayashi, Junji; Kawashima,
Takayuki

CORPORATE SOURCE: Department of Chemistry, Graduate School of Science,
The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku,
Tokyo, 113-0033, Japan

SOURCE: Journal of the American Chemical Society (2009),
131(40), 14192-14193

CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 151:448483

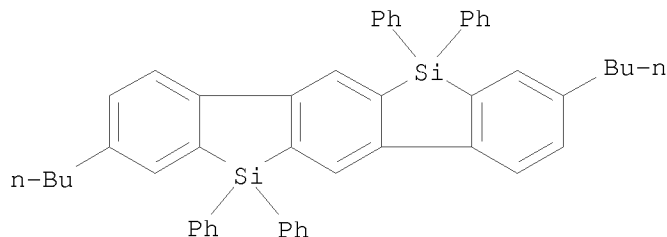
AB An intramol. sila-Friedel-Crafts reaction was developed and applied to the
synthesis of dibenzosilole derivs. This reaction proceeds under mild
conditions to afford the target in relatively high yield, indicating its
availability as a versatile synthetic method. The synthesis of
trisilasumanene, a silicon analog of sumanene, was achieved using the
present reaction.

IT 1190956-35-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and structure of dibenzosiloles and a trisilasumanene via
intramol. sila-Friedel-Crafts reaction)

RN 1190956-35-4 CAPLUS

CN Benzo[1,2-b:4,5-b']bis[1]benzosilole,
3,9-dibutyl-5,11-dihydro-5,5,11,11-tetraphenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 7 THERE ARE 7 CAPLUS RECORDS THAT CITE THIS RECORD (7 CITINGS)
 REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 5 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:926891 CAPLUS

DOCUMENT NUMBER: 151:381831

TITLE: New Types of Fluorescent Polymers with Bis-Silicon-Bridged p-Terphenyl as a Building Unit

AUTHOR(S): Li, Liangchun; Xu, Caihong; Li, Shuhong

CORPORATE SOURCE: Beijing National Laboratory for Molecular Sciences (BNLMS), Institute of Chemistry, Chinese Academy of Sciences, Beijing, 100190, Peop. Rep. China

SOURCE: Macromolecular Chemistry and Physics (2009), 210(13-14), 1097-1103

CODEN: MCHPES; ISSN: 1022-1352

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 151:381831

AB A series of novel polymers containing a bis-silicon-bridged p-terphenyl skeleton in the main chain is synthesized using hydrosilylation reactions with 6,12-dihydro-6,12-dimethyl-6,12-disilaindino[1,2-b]fluorene (2) as the key monomer. Their photophys. and thermal properties are investigated and compared with those of the related monomer and model compds. All polymers show an improved thermal stability with respect to the small mols. In dilute solns., the polymers constructed with alternate bis-silicon-bridged p-terphenyl and saturated unit show constant emission maximum

wavelengths and fluorescence quantum yields, comparable to those of monomer 2, while the polymer having an unsatd. linkage between the bis-silicon-bridged p-terphenyl units exhibits a low fluorescence quantum yield with a red-shifted emission maximum wavelength.

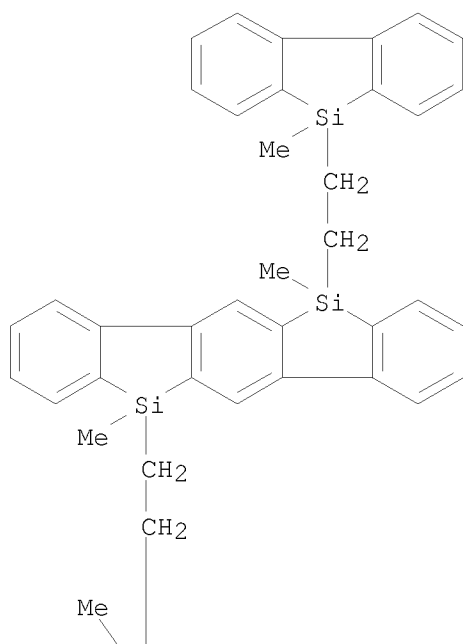
IT 1187642-96-1P 1187642-97-2P 1187642-98-3P
 1187642-99-4P 1187643-00-0P 1187643-01-1P
 1187643-02-2P 1187643-03-3P 1187643-04-4P
 1187643-05-5P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (fluorescent polymers with bis-silicon-bridged terphenyl as building unit)

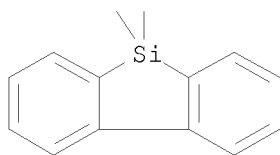
RN 1187642-96-1 CAPLUS

CN Benzo[1,2-b:4,5-b']bis[1]benzosilole,
 5,11-dihydro-5,11-dimethyl-5,11-bis[2-(9-methyl-9H-9-silafluoren-9-yl)ethyl]- (CA INDEX NAME)

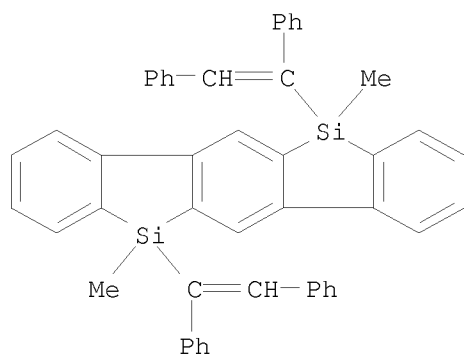
PAGE 1-A



PAGE 2-A



RN 1187642-97-2 CAPLUS
 CN Benzo[1,2-b:4,5-b']bis[1]benzosilole,
 5,11-bis(1,2-diphenylethenyl)-5,11-dihydro-5,11-dimethyl- (CA INDEX NAME)

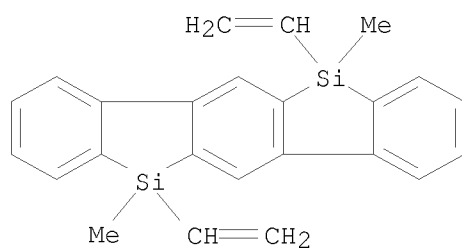


RN 1187642-98-3 CAPLUS
CN Benzo[1,2-b:4,5-b']bis[1]benzosilole,
5,11-diethenyl-5,11-dihydro-5,11-dimethyl-, polymer with
5,11-dihydro-5,11-dimethylbenzo[1,2-b:4,5-b']bis[1]benzosilole (CA INDEX
NAME)

CM 1

CRN 959589-12-9

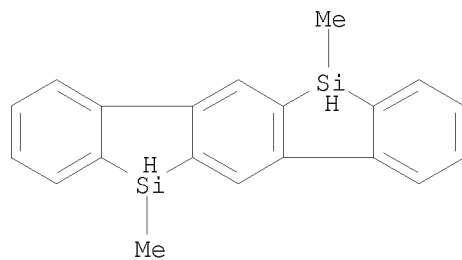
CMF C24 H22 Si2



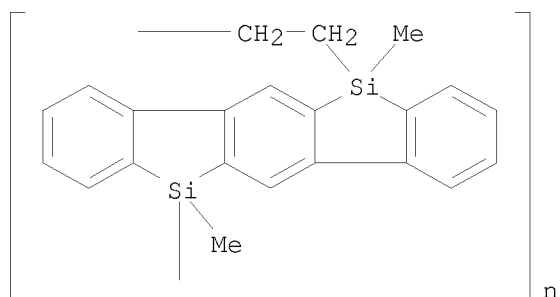
CM 2

CRN 959589-05-0

CMF C20 H18 Si2



RN 1187642-99-4 CAPLUS
CN Poly[(5,11-dimethylbenzo[1,2-b:4,5-b']bis[1]benzosilole-5,11-diyl)-1,2-
ethanediyl] (CA INDEX NAME)



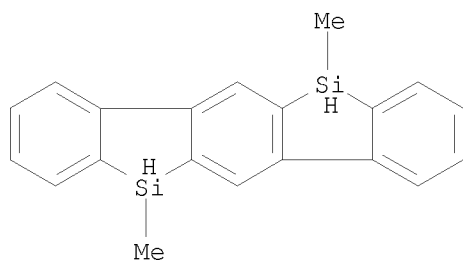
RN 1187643-00-0 CAPLUS

CN Benzo[1,2-b:4,5-b']bis[1]benzosilole, 5,11-dihydro-5,11-dimethyl-, polymer with 1,5-hexadiene (CA INDEX NAME)

CM 1

CRN 959589-05-0

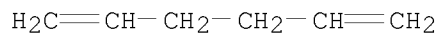
CMF C20 H18 Si2



CM 2

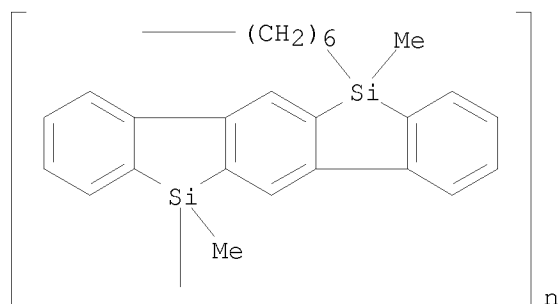
CRN 592-42-7

CMF C6 H10



RN 1187643-01-1 CAPLUS

CN Poly[(5,11-dimethylbenzo[1,2-b:4,5-b']bis[1]benzosilole-5,11-diyl)-1,6-hexanediyl] (CA INDEX NAME)



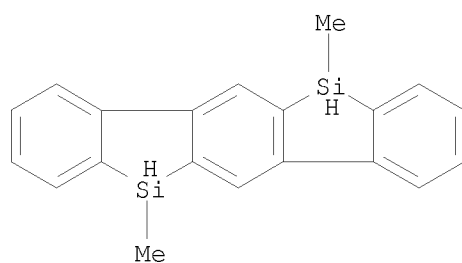
RN 1187643-02-2 CAPLUS

CN Benzo[1,2-b:4,5-b']bis[1]benzosilole, 5,11-dihydro-5,11-dimethyl-, polymer with 1,3-diethenyl-1,1,3,3-tetramethyldisiloxane (CA INDEX NAME)

CM 1

CRN 959589-05-0

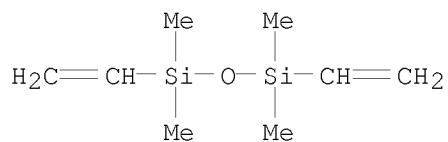
CMF C20 H18 Si2



CM 2

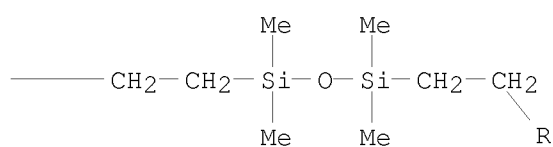
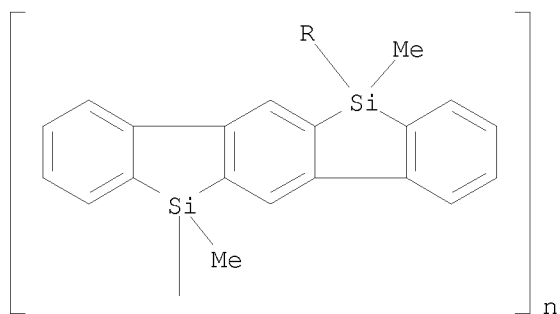
CRN 2627-95-4

CMF C8 H18 O Si2



RN 1187643-03-3 CAPLUS

CN Poly[(5,11-dimethylbenzo[1,2-b:4,5-b']bis[1]benzosilole-5,11-diyl)-1,2-ethanediyl(1,1,3,3-tetramethyl-1,3-disiloxanediyl)-1,2-ethanediyl] (CA INDEX NAME)



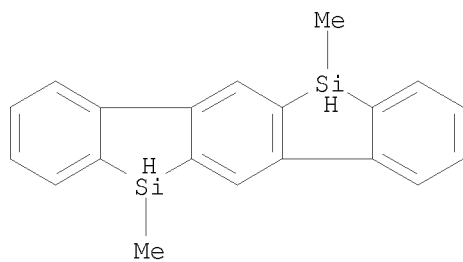
RN 1187643-04-4 CAPLUS

CN Benzo[1,2-b:4,5-b']bis[1]benzosilole, 5,11-dihydro-5,11-dimethyl-, polymer with 1,4-bis(2-phenylethynyl)benzene (CA INDEX NAME)

CM 1

CRN 959589-05-0

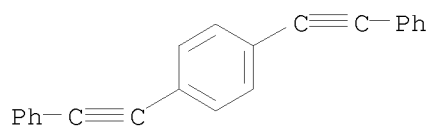
CMF C20 H18 Si2



CM 2

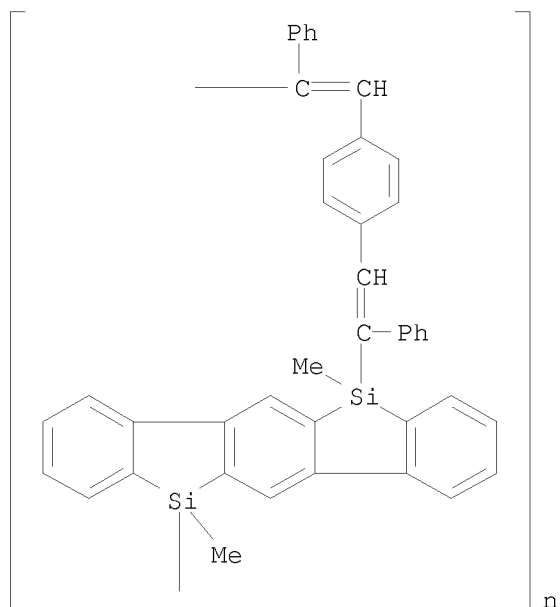
CRN 1849-27-0

CMF C22 H14

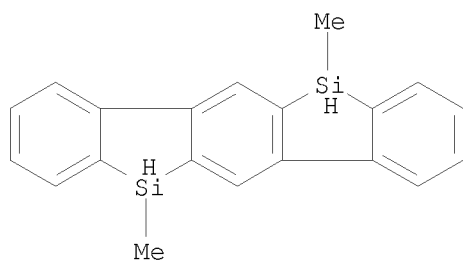


RN 1187643-05-5 CAPLUS

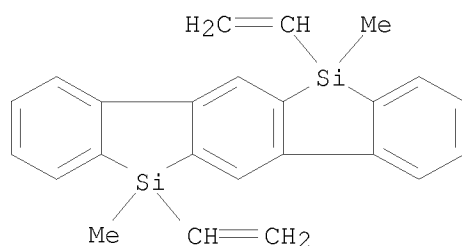
CN Poly[(5,11-dimethylbenzo[1,2-b:4,5-b']bis[1]benzosilole-5,11-diyl)(1-phenyl-1,2-ethenediyl)-1,4-phenylene(2-phenyl-1,2-ethenediyl)] (CA INDEX NAME)



IT 959589-05-0 959589-12-9
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (fluorescent polymers with bis-silicon-bridged terphenyl as building unit)
 RN 959589-05-0 CAPLUS
 CN Benzo[1,2-b:4,5-b']bis[1]benzosilole, 5,11-dihydro-5,11-dimethyl- (CA INDEX NAME)



RN 959589-12-9 CAPLUS
 CN Benzo[1,2-b:4,5-b']bis[1]benzosilole,
 5,11-diethenyl-5,11-dihydro-5,11-dimethyl- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)
REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 6 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:615370 CAPLUS

DOCUMENT NUMBER: 150:551460

TITLE: Aryl-substituted siloles, their preparation, and
threshold-reduced organic electroluminescent devices
therewith

INVENTOR(S): Nakamura, Eiichi; Sato, Yoshiharu; Tsuji, Hayato;
Ilies, Laurean

PATENT ASSIGNEE(S): Japan Science and Technology Agency, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 32pp.

CODEN: JKXXAF

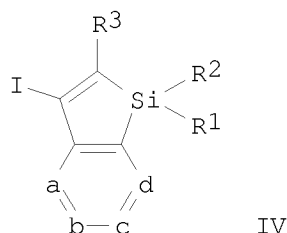
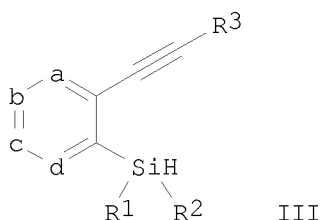
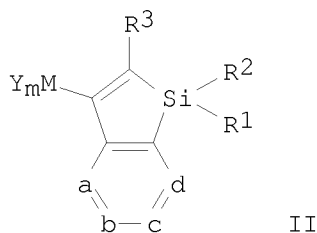
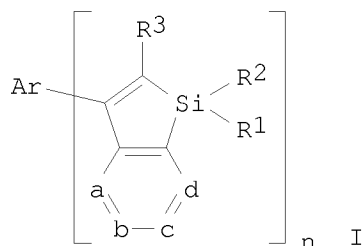
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2009108053	A	20090521	JP 2008-264653	20081010
PRIORITY APPLN. INFO.:			JP 2007-265948	A 20071011
OTHER SOURCE(S):		MARPAT 150:551460		
GI				



AB Silole compds. I [R1, R2 = C1-6 aliphatic hydrocarbyl, alkoxy, aromatic hydrocarbyl, etc.; R3 = C1-6 aliphatic hydrocarbyl, aromatic hydrocarbyl, aromatic heterocycle; a-d = C, N; Ar = n-valent aromatic (heterocyclic) hydrocarbon; n = 1-6] are prepared by reacting II [Ar = YmM; R1-R3 = the same as above; Y = alkyl(amino), aryl; m = (m0 - 1) (m0 = valence number of M)] with ArXn (Ar, n = the same as above; X = halo). The II is prepared by reacting acetylene derivative III (R1-R3, a-d = the same as above) with Group IVA anionic species. Further claimed is a process for preparing I by reacting IV (Ar = i; R1-R3, a-d = the same as above) with ArZn [Ar = the same as above; Z = ZnX, MgX, SnR3, SiR3 (X = halo; R = alkyl, alkylamino, aryl)]. Organic LED containing the silole compound I in organic layers (e.g., emitting layers) show fine stability of thin-film structure and long-term stability of superior high luminescent characteristics.

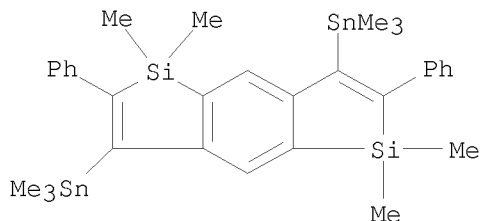
IT 1152130-94-3P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(high-efficiency organic LED containing aryl-substituted condensed silole compds. in electron-transporting layers)

RN 1152130-94-3 CAPLUS

CN 1,5-Disila-s-indacene, 1,1,5,5-tetramethyl-2,6-diphenyl-3,7-bis(trimethylstannyl)- (CA INDEX NAME)



L3 ANSWER 7 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2009:373667 CAPLUS

DOCUMENT NUMBER: 151:20996

TITLE: Substituent effects on the electronic structure of siloles

AUTHOR(S): Zhan, Xiaowei; Barlow, Stephen; Marder, Seth R.

CORPORATE SOURCE: Beijing National Laboratory for Molecular Sciences and CAS Key Laboratory of Organic Solids, Institute of Chemistry, Chinese Academy of Sciences, Beijing, 100190, Peop. Rep. China

SOURCE: Chemical Communications (Cambridge, United Kingdom) (2009), (15), 1948-1955
CODEN: CHCOFS; ISSN: 1359-7345

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review. Siloles are attractive building blocks for the design and synthesis of organic semiconductors that exhibit potential applications in light-emitting diodes, solar cells, field-effect transistors, and sensors. Understanding how mol. engineering of the electronic structures can help control the properties of these materials has attracted significant research effort. In the present review the authors illustrate the current state-of-the-art of the mol. engineering of siloles, especially focusing on the effects of substituents and on the electronic structure of siloles.

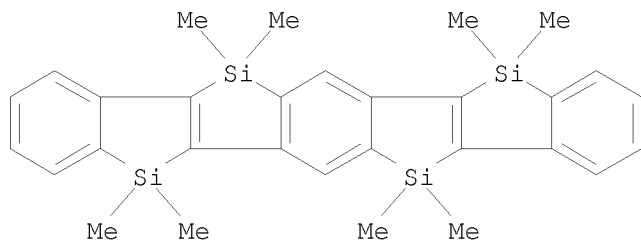
IT 625389-91-5P

RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(substituent effects on the electronic structure of siloles for LED and field effect transistors and solar cells)

RN 625389-91-5 CAPLUS

CN [1]Benzosilolo[3,2-b][1]benzosilolo[2',3':4,5]silolo[2,3-f][1]benzosilole, 5,7,12,14-tetrahydro-5,5,7,7,12,12,14,14-octamethyl- (CA INDEX NAME)



OS.CITING REF COUNT: 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (17 CITINGS)

REFERENCE COUNT: 79 THERE ARE 79 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 8 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN

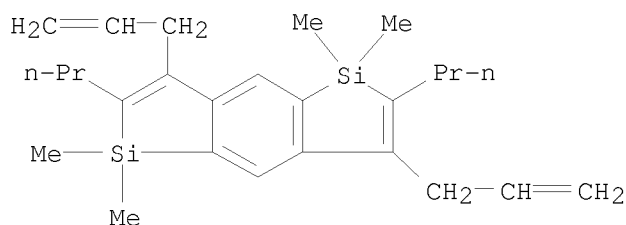
ACCESSION NUMBER: 2008:707446 CAPLUS

DOCUMENT NUMBER: 149:246581

TITLE: Gold-catalyzed intramolecular trans-allylsilylation of alkynes forming 3-allyl-1-silaindenes

AUTHOR(S): Matsuda, Takanori; Kadowaki, Sho; Yamaguchi,

CORPORATE SOURCE: Yoshiyuki; Murakami, Masahiro
Department of Synthetic Chemistry and Biological
Chemistry, Kyoto University, Katsura, Kyoto, 615-8510,
Japan
SOURCE: Chemical Communications (Cambridge, United Kingdom)
(2008), (24), 2744-2746
CODEN: CHCOFS; ISSN: 1359-7345
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 149:246581
AB 3-Allyl-1-silaindenes, e.g. 3-allyl-1,1-dimethyl-2-propyl-1-silaindene,
are prepared from alkynes, e.g. 2-n-PrC.tplbond.CC6H4SiMe2CH2CH:CH2, having
an allylsilane moiety by a gold-catalyzed intramol. trans-allylsilylation
reaction.
IT 1045601-99-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of allylsilyl alkynes for gold-catalyzed intramol.
trans-allylsilylation to give allylsilaindenes)
RN 1045601-99-7 CAPLUS
CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-3,7-di-2-propen-1-
yl-2,6-dipropyl- (CA INDEX NAME)



OS.CITING REF COUNT: 5 THERE ARE 5 CAPLUS RECORDS THAT CITE THIS RECORD
(5 CITINGS)
REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 9 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2007:1300654 CAPLUS
DOCUMENT NUMBER: 147:551330
TITLE: Organic field emission element containing polycyclic
condensed ring compound as dopant in light-emitting
layer
INVENTOR(S): Yamaguchi, Shigehiro; Yamada, Hiroshi; Uchida, Manabu
PATENT ASSIGNEE(S): Chisso Corp., Japan; Nagoya University
SOURCE: Jpn. Kokai Tokkyo Koho, 63pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007299980	A	20071115	JP 2006-127533	20060501

PRIORITY APPLN. INFO.:

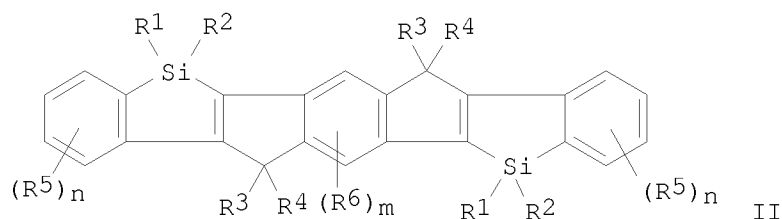
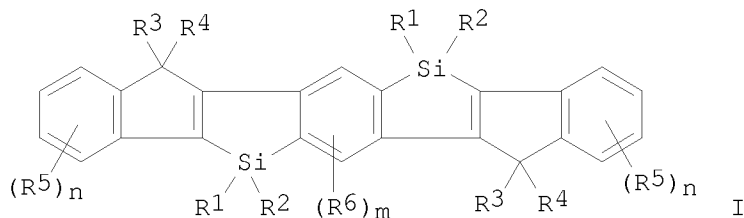
JP 2006-127533

20060501

OTHER SOURCE(S):

MARPAT 147:551330

GI



AB Disclosed is an organic field emission element comprising a light emitting layer between a pair of electrodes containing a host and a dopant, wherein the dopant is represented by I or II (R1-6 = H, alkyl, alkenyl, etc.; m = 0-2; and n = 0-4).

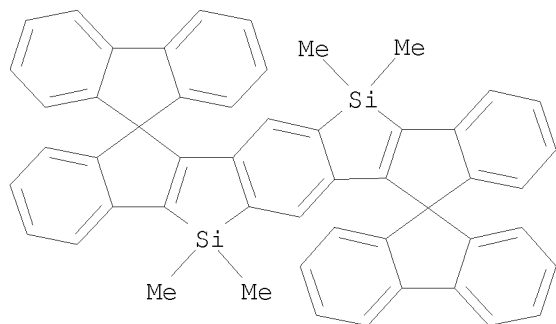
IT 848155-66-8 956604-02-7 956604-04-9
 956604-06-1 956604-08-3 956604-10-7
 956604-12-9 956604-14-1 956604-16-3
 956604-18-5 956604-20-9 956604-23-2
 956604-25-4 956604-27-6 956604-29-8
 956604-31-2

RL: MOA (Modifier or additive use); USES (Uses)

(Organic field emission element containing polycyclic condensed ring compound as dopant in light-emitting layer)

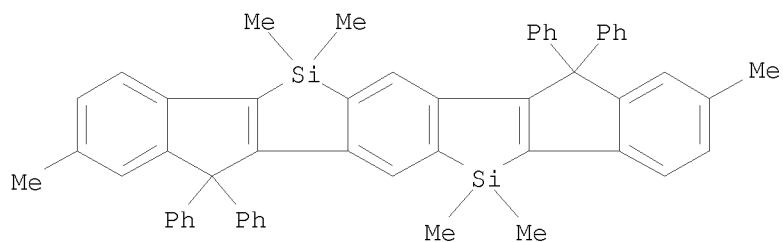
RN 848155-66-8 CAPLUS

CN Dispiro[9H-fluorene-9,7'(14'H)-diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole-14',9''-[9H]fluorene],
 5',12'-dihydro-5',5',12',12'-tetramethyl- (CA INDEX NAME)



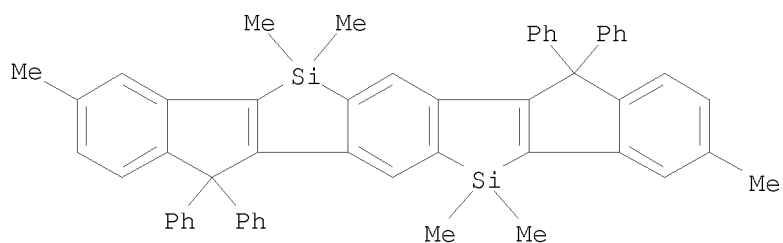
RN 956604-02-7 CAPLUS

CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
5,7,12,14-tetrahydro-2,5,5,9,12,12-hexamethyl-7,7,14,14-tetraphenyl- (CA
INDEX NAME)



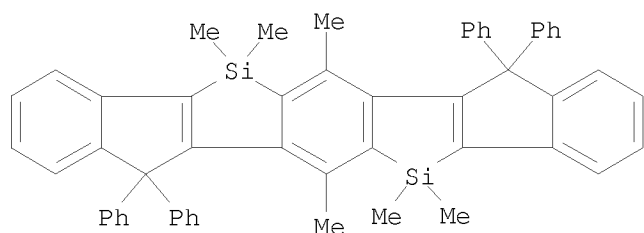
RN 956604-04-9 CAPLUS

CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
5,7,12,14-tetrahydro-3,5,5,10,12,12-hexamethyl-7,7,14,14-tetraphenyl- (CA
INDEX NAME)

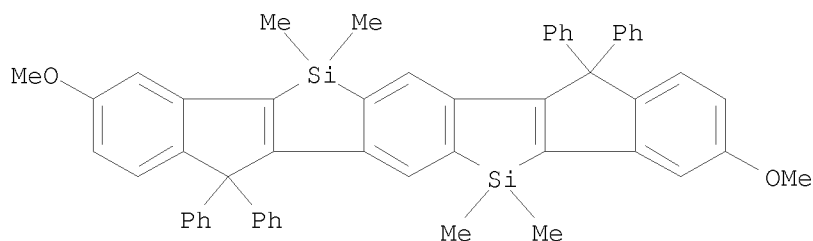


RN 956604-06-1 CAPLUS

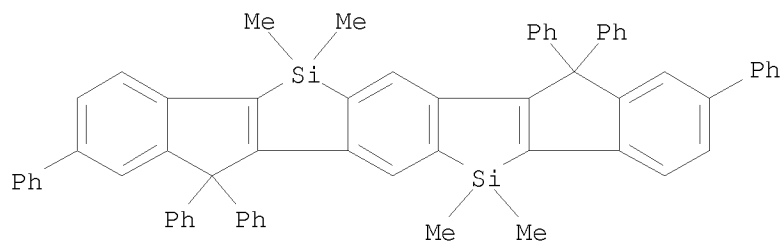
CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
5,7,12,14-tetrahydro-5,5,6,12,12,13-hexamethyl-7,7,14,14-tetraphenyl- (CA
INDEX NAME)



RN 956604-08-3 CAPLUS

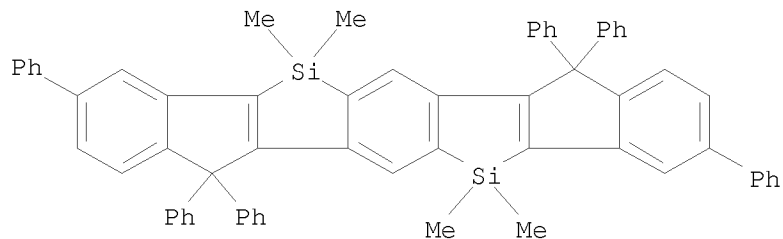
CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
5,7,12,14-tetrahydro-3,10-dimethoxy-5,5,12,12-tetramethyl-7,7,14,14-
tetraphenyl- (CA INDEX NAME)

RN 956604-10-7 CAPLUS

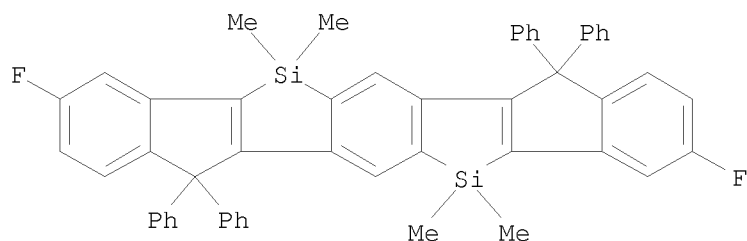
CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
5,7,12,14-tetrahydro-5,5,12,12-tetramethyl-2,7,7,9,14,14-hexaphenyl- (CA
INDEX NAME)

RN 956604-12-9 CAPLUS

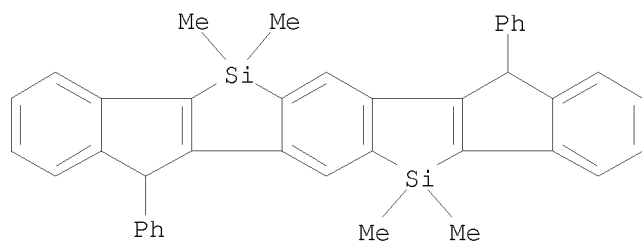
CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
5,7,12,14-tetrahydro-5,5,12,12-tetramethyl-3,7,7,10,14,14-hexaphenyl- (CA
INDEX NAME)



RN 956604-14-1 CAPLUS

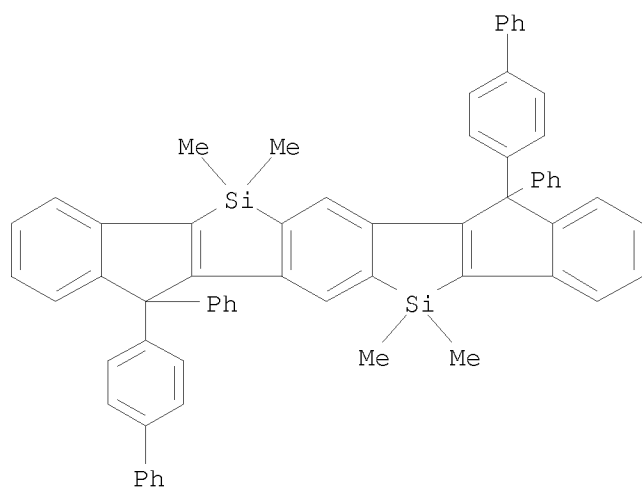
CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
3,10-difluoro-5,7,12,14-tetrahydro-5,5,12,12-tetramethyl-7,7,14,14-
tetraphenyl- (CA INDEX NAME)

RN 956604-16-3 CAPLUS

CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
5,7,12,14-tetrahydro-5,5,12,12-tetramethyl-7,14-diphenyl- (CA INDEX NAME)

RN 956604-18-5 CAPLUS

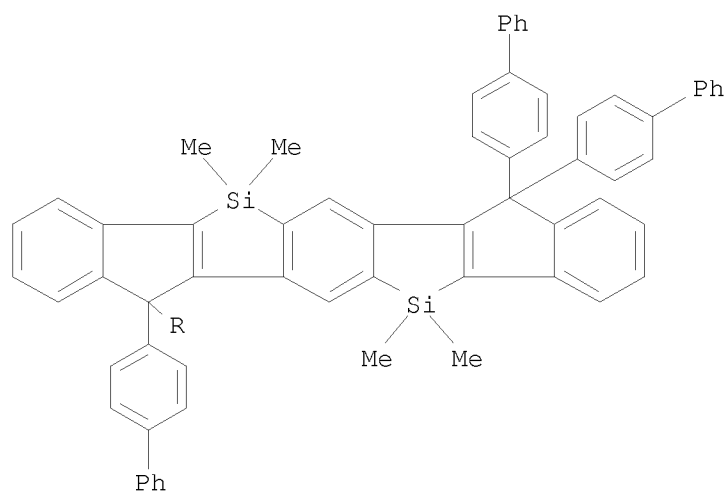
CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
7,14-bis([1,1'-biphenyl]-4-yl)-5,7,12,14-tetrahydro-5,5,12,12-tetramethyl-
7,14-diphenyl- (CA INDEX NAME)



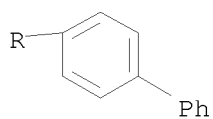
RN 956604-20-9 CAPLUS

CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
7,7,14,14-tetrakis([1,1'-biphenyl]-4-yl)-5,7,12,12-
tetramethyl- (CA INDEX NAME)

PAGE 1-A



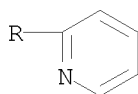
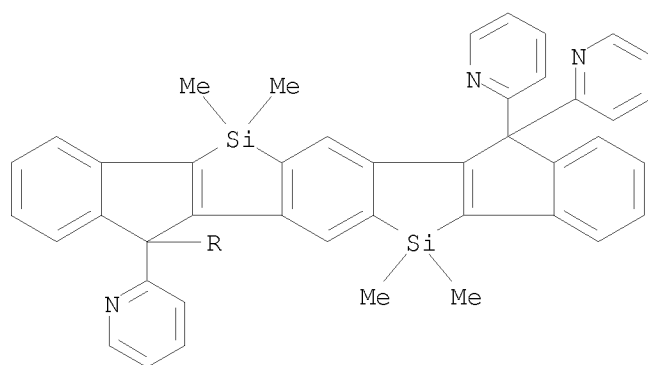
PAGE 2-A



RN 956604-23-2 CAPLUS

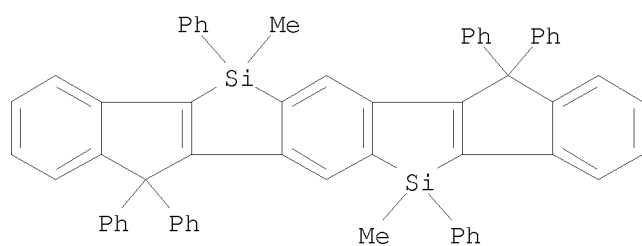
CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,

5,7,12,14-tetrahydro-5,5,12,12-tetramethyl-7,7,14,14-tetra-2-pyridinyl-
(CA INDEX NAME)



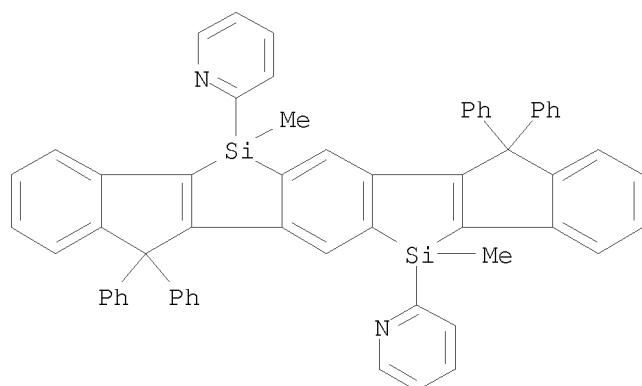
RN 956604-25-4 CAPLUS

CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
5,7,12,14-tetrahydro-5,12-dimethyl-5,7,7,12,14,14-hexaphenyl- (CA INDEX
NAME)



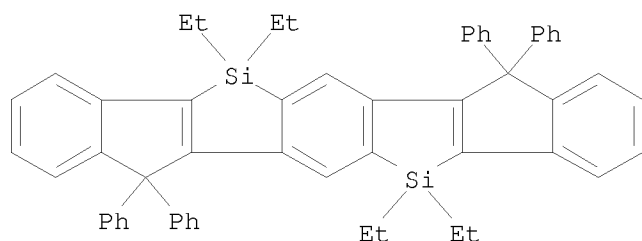
RN 956604-27-6 CAPLUS

CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
5,7,12,14-tetrahydro-5,12-dimethyl-7,7,14,14-tetraphenyl-5,12-di-2-
pyridinyl- (CA INDEX NAME)



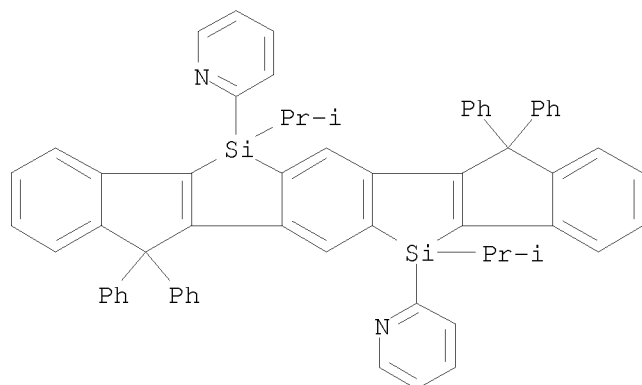
RN 956604-29-8 CAPLUS

CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
5,5,12,12-tetraethyl-5,7,12,14-tetrahydro-7,7,14,14-tetraphenyl- (CA
INDEX NAME)



RN 956604-31-2 CAPLUS

CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
5,7,12,14-tetrahydro-5,12-bis(1-methylethyl)-7,7,14,14-tetraphenyl-5,12-di-
2-pyridinyl- (CA INDEX NAME)



IT 848155-65-7P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PRP

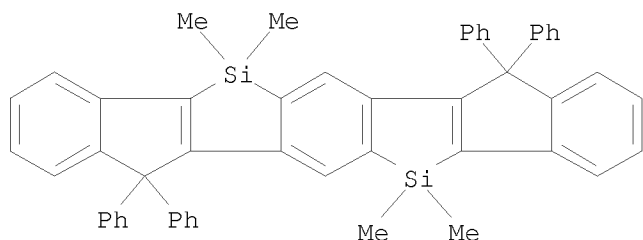
(Properties); PREP (Preparation); USES (Uses)

(preparation of polycyclic condensed ring compound as dopant for organic field

emission element)

RN 848155-65-7 CAPLUS

CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
5,7,12,14-tetrahydro-5,5,12,12-tetramethyl-7,7,14,14-tetraphenyl- (CA
INDEX NAME)



IT 848155-64-6P

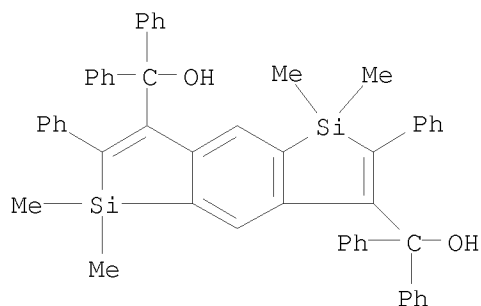
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
(Reactant or reagent)

(preparation of polycyclic condensed ring compound as dopant for organic field

emission element)

RN 848155-64-6 CAPLUS

CN 1,5-Disila-s-indacene-3,7-dimethanol,
1,5-dihydro-1,1,5,5-tetramethyl- $\alpha,\alpha,\alpha',\alpha'$,2,6-
hexaphenyl- (CA INDEX NAME)



L3 ANSWER 10 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:1173754 CAPLUS

DOCUMENT NUMBER: 147:469455

TITLE: Preparation of benzometalloles by [2+2+2]
cycloaddition reaction of diynes with monoynes

INVENTOR(S): Murakami, Masahiro; Matsuda, Takanori; Kadowaki,
Akira; Kureya, Takeshi

PATENT ASSIGNEE(S): Kyoto University, Japan; Nippon Shokubai Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 32pp.

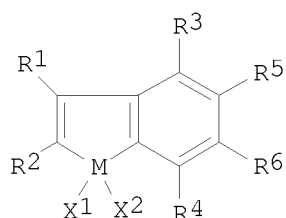
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

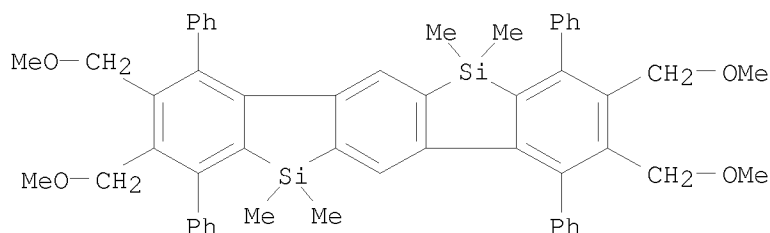
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007269794	A	20071018	JP 2007-58672	20070308
PRIORITY APPLN. INFO.:			JP 2006-66496	A 20060310
OTHER SOURCE(S):	MARPAT 147:469455			

GI



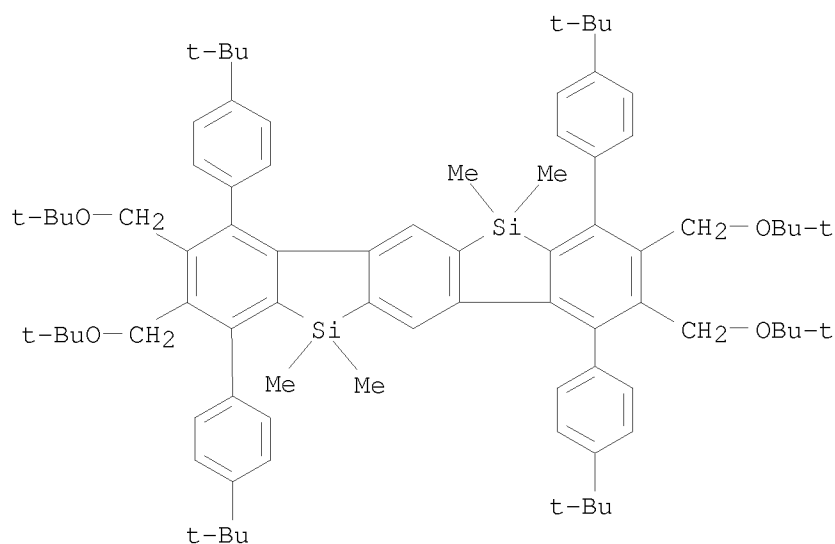
I

- AB Benzometalloles I [R1, R2 = H, halo, alkyl, aryl, alkoxy, aryloxy, perfluoroalkyl, arylcarbonyloxy, amino, NO2, NO, sulfanyl, phosphoryl, thiocyanato, silyl, stannyl, heterocyclyl, etc., which may be interrupted by alkylene, arylene, etc.; R1 and R2 may be bonded together to form monocyclic or condensed (un)substituted (hetero)ring; R3-R6 = any group given for R1 and R2; M1 = Si, Ge; X1, X2 = H, halo, alkyl, aryl, alkoxy, aryloxy, alkynyl, alkenyl, amino], useful as electron-transporting luminescent materials for organic electroluminescent devices, functional materials, e.g. for solar cells, fuel cells, transistors, sensors, etc., are prepared by reacting R3C.tplbond.CCR1:CR2M1X1X2C.tplbond.CR4 (R1-R4, M2, X1, X2 = same as above) with R5C.tplbond.CR6 (R5, R6 = same as above). Thus, a mixture of chloro(1,5-cyclooctadiene)iridium dimer, PPh3, and Bu2O was treated with 101.0 mg dimethyl(phenylethynyl)[2-(phenylethynyl)phenyl]silane (preparation given) and 68.5 mg 1,4-dimethoxy-2-butyne at 110° for 24 h to give 116.8 mg 2,3-di(methoxymethyl)-9,9-dimethyl-1,4-diphenyl-9-silafluorene.
- IT 922501-40-4P 952676-71-0P
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (preparation of benzometalloles for elec. and optical functional materials by [2+2+2] cycloaddn. reaction of diynes with monoynes)
- RN 922501-40-4 CAPLUS
- CN Benzo[1,2-b:4,5-b']bis[1]benzosilole,
 5,11-dihydro-2,3,8,9-tetrakis(methoxymethyl)-5,5,11,11-tetramethyl-1,4,7,10-tetraphenyl- (CA INDEX NAME)



RN 952676-71-0 CAPLUS

CN Benzo[1,2-b:4,5-b']bis[1]benzosilole,
2,3,8,9-tetrakis[(1,1-dimethylethoxy)methyl]-1,4,7,10-tetrakis[4-(1,1-
dimethylethyl)phenyl]-5,11-dihydro-5,5,11,11-tetramethyl- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L3 ANSWER 11 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2007:1133084 CAPLUS

DOCUMENT NUMBER: 148:33802

TITLE: Synthesis of Novel Ladder Bis-Silicon-Bridged
p-Terphenyls

AUTHOR(S): Li, Liangchun; Xiang, Junfeng; Xu, Caihong

CORPORATE SOURCE: Beijing National Laboratory for Molecular Sciences
(BNLMS), Institute of Chemistry, Chinese Academy of
Sciences, Beijing, 100080, Peop. Rep. China

SOURCE: Organic Letters (2007), 9(23), 4877-4879

CODEN: ORLEF7; ISSN: 1523-7060

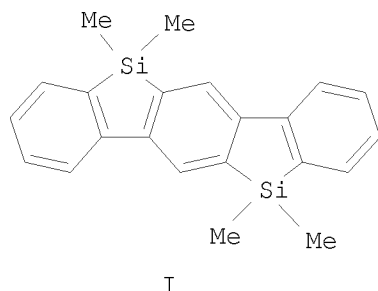
PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 148:33802

GI

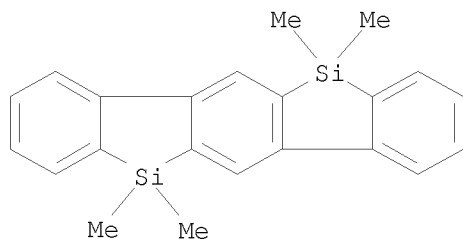


AB The tetralithiation reaction of 2,2',5',2''-tetrabromo-p-terphenyl followed by a double silacyclization produces bis-silicon-bridged p-terphenyls, e.g. I. On the basis of this convenient method, a series of new ladder-type p-terphenyl derivs. have been synthesized. The crystal structure of I and photophys. properties are described.

IT 959589-11-8P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (crystal structure; preparation and photophys. properties of ladder bis-silicon-bridged p-terphenyls)

RN 959589-11-8 CAPLUS

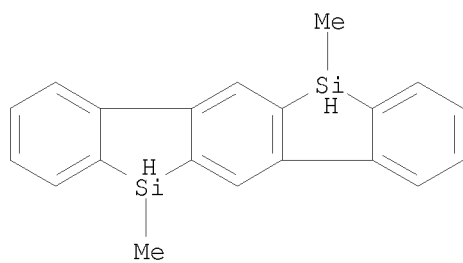
CN Benzo[1,2-b:4,5-b']bis[1]benzosilole, 5,11-dihydro-5,5,11,11-tetramethyl- (CA INDEX NAME)



IT 959589-05-0P 959589-12-9P 959589-13-0P
 959589-14-1P 959589-15-2P 959589-16-3P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (preparation and photophys. properties of ladder bis-silicon-bridged p-terphenyls)

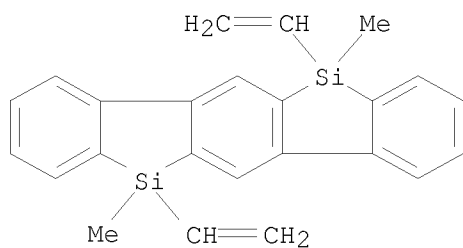
RN 959589-05-0 CAPLUS

CN Benzo[1,2-b:4,5-b']bis[1]benzosilole, 5,11-dihydro-5,11-dimethyl- (CA INDEX NAME)



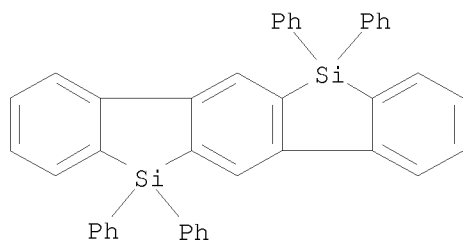
RN 959589-12-9 CAPLUS

CN Benzo[1,2-b:4,5-b']bis[1]benzosilole,
5,11-diethenyl-5,11-dihydro-5,11-dimethyl- (CA INDEX NAME)



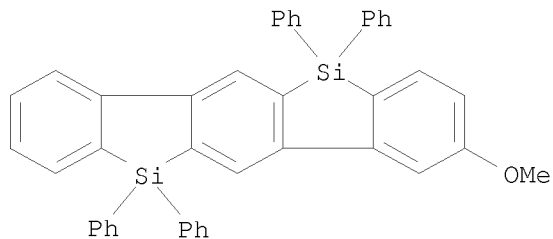
RN 959589-13-0 CAPLUS

CN Benzo[1,2-b:4,5-b']bis[1]benzosilole, 5,11-dihydro-5,5,11,11-tetraphenyl-
(CA INDEX NAME)

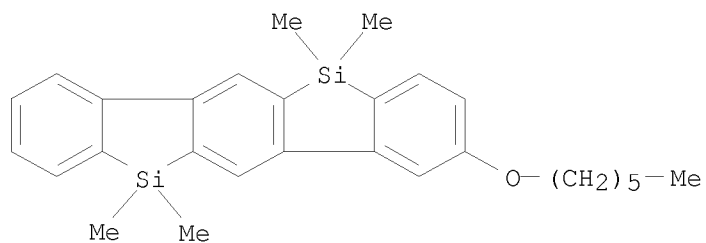


RN 959589-14-1 CAPLUS

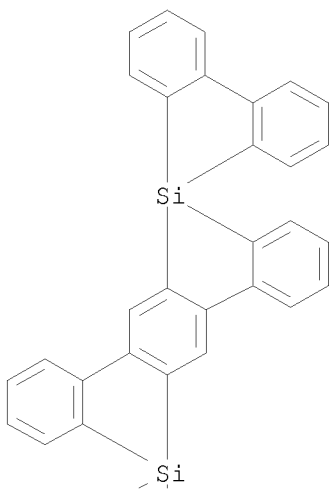
CN	Benzo[1,2-b:4,5-b']bis[1]benzosilole, 5,11-dihydro-2-methoxy-5,5,11,11-tetraphenyl-	(CA INDEX NAME)
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RN 959589-15-2 CAPLUS

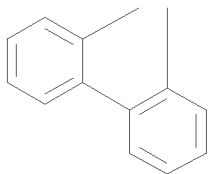
CN Benzo[1,2-b:4,5-b']bis[1]benzosilole,
2-(hexyloxy)-5,11-dihydro-5,5,11,11-tetramethyl- (CA INDEX NAME)

RN 959589-16-3 CAPLUS

CN Dispiro[9H-9-silafluorene-9,5'-(11'H)-benzo[1,2-b:4,5-b']bis[1]benzosilole-
11',9''-[9H-9]silafluorene] (CA INDEX NAME)

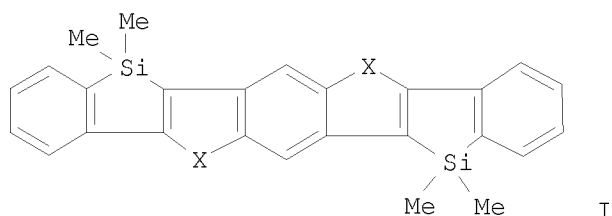
PAGE 1-A

PAGE 2-A



OS.CITING REF COUNT: 19 THERE ARE 19 CAPLUS RECORDS THAT CITE THIS RECORD (20 CITINGS)
 REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 12 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN
 ACCESSION NUMBER: 2006:1320920 CAPLUS
 DOCUMENT NUMBER: 146:206376
 TITLE: Ladder Distyrylbenzenes with Silicon and Chalcogen Bridges: Synthesis, Structures, and Properties
 AUTHOR(S): Mouri, Kazuhiro; Wakamiya, Atsushi; Yamada, Hiroshi; Kajiwara, Takashi; Yamaguchi, Shigehiro
 CORPORATE SOURCE: Department of Chemistry, Graduate School of Science, Nagoya University, Chikusa, Nagoya, 464-8602, Japan
 SOURCE: Organic Letters (2007), 9(1), 93-96
 CODEN: ORLEF7; ISSN: 1523-7060
 PUBLISHER: American Chemical Society
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 146:206376
 GI

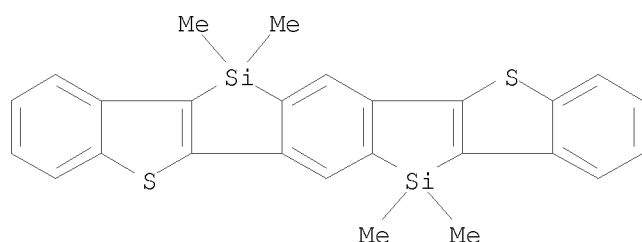


AB A cascade-type anionic double cyclization of (o-silylphenyl)(o-halophenyl)acetylenes via lithiation followed by treatment with elemental chalcogen produces Si and chalcogen-bridged stilbenes, e.g., I (X = S, SO₂, Se). Based on this reaction, Si and S- or Si and Se-bridged ladder distyrylbenzenes, e.g., I, were synthesized and characterized by x-ray crystallog. and electrochem. redox and photophys. spectroscopies. Their chemical modification by oxidation, crystal structures, and photophys. properties are described.
 IT 922736-71-8P 922736-72-9P
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
 (crystal structure, photophys. and electrochem. redox; cascade-type

anionic double cyclization of (silylphenyl)(halophenyl)acetylenes via lithiation followed chalcogenation to give Si- and chalcogen-bridged stilbenes)

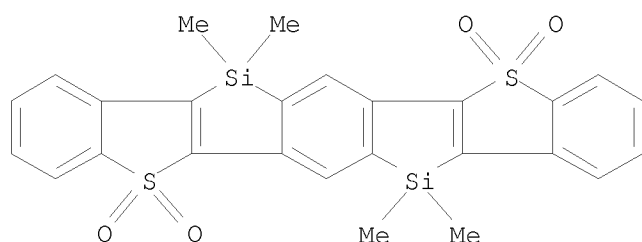
RN 922736-71-8 CAPLUS

CN Benzo[1'',2'':4,5;4'',5'':4',5']bissilolo[3,2-b:3',2'-b']bis[1]benzothiophene, 7,14-dihydro-7,7,14,14-tetramethyl- (CA INDEX NAME)



RN 922736-72-9 CAPLUS

CN Benzo[1'',2'':4,5;4'',5'':4',5']bissilolo[3,2-b:3',2'-b']bis[1]benzothiophene, 7,14-dihydro-7,7,14,14-tetramethyl-, 5,5,12,12-tetraoxide (CA INDEX NAME)



OS.CITING REF COUNT: 18 THERE ARE 18 CAPLUS RECORDS THAT CITE THIS RECORD (18 CITINGS)

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 13 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2006:1288489 CAPLUS

DOCUMENT NUMBER: 146:206373

TITLE: Synthesis of Silafluorenes by Iridium-Catalyzed [2 + 2 + 2] Cycloaddition of Silicon-Bridged Diynes with Alkynes

AUTHOR(S): Matsuda, Takanori; Kadowaki, Sho; Goya, Tsuyoshi; Murakami, Masahiro

CORPORATE SOURCE: Department of Synthetic Chemistry and Biological Chemistry, Kyoto University, Katsura, Kyoto, 615-8510, Japan

SOURCE: Organic Letters (2007), 9(1), 133-136

CODEN: ORLEF7; ISSN: 1523-7060

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 146:206373

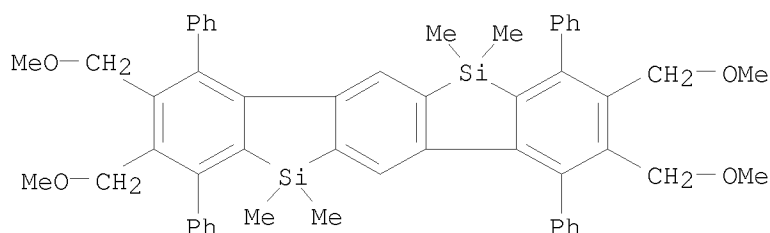
AB Twelve substituted silafluorene derivs. were prepared by [2+2+2] cycloaddn. of Si-bridged 1,6-diynes with alkynes in the presence of an Ir(I)-phosphine catalyst in 7% to 93% yields. E.g., cyclotrimerization of dimethyl(phenylethynyl)(2-(phenylethynyl)phenyl)silane with 2 equiv 1,4-dimethoxybut-2-yne afforded 2,3-bis(methoxymethyl)-1,4-diphenylsilafluorene in 86% isolated yield. Extended silafluorene skeletons were constructed by [2+2+2] cycloaddn. of tetraynes with alkynes.

IT 922501-40-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of substituted silafluorenes by iridium-catalyzed [2+2+2] cycloaddn. of silicon-bridged diynes with alkynes)

RN 922501-40-4 CAPLUS

CN Benzo[1,2-b:4,5-b']bis[1]benzosilole,
5,11-dihydro-2,3,8,9-tetrakis(methoxymethyl)-5,5,11,11-tetramethyl-
1,4,7,10-tetraphenyl- (CA INDEX NAME)



OS.CITING REF COUNT: 35 THERE ARE 35 CAPLUS RECORDS THAT CITE THIS
RECORD (35 CITINGS)
REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 14 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:1250822 CAPLUS

DOCUMENT NUMBER: 145:124625

TITLE: The chemistry of silicon-containing ladder
 π -conjugated systems

AUTHOR(S): Yamaguchi, Shigehiro; Xu, Caihong

CORPORATE SOURCE: Department of Chemistry, Graduate School of Science,
Nagoya University, and SORST, Japan

SOURCE: Yuki Gosei Kagaku Kyokaishi (2005), 63(11), 1115-1123
CODEN: YGKKAE; ISSN: 0037-9980

PUBLISHER: Yuki Gosei Kagaku Kyokai

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

AB A review. The intramol. reductive cyclization of bis(o-silylphenyl)acetylenes with Li naphthalenide produces bis-Si-bridged stilbenes. Based on this new cyclization, Si-bridged ladder π -conjugated systems consisting of the p-phenylenevinylene framework were synthesized, including the partially or fully Si-bridged bis(styryl)benzenes, extended ladder oligo(p-phenylenevinylene)s, and bis-Si-bridged stilbene-based π -conjugated polymers. All the ladder π -electron systems show intense fluorescence in the visible region. The detailed elucidation of their photophys. properties revealed the significant effect of the Si moieties on the fluorescence properties.

IT 848155-68-0 848155-70-4

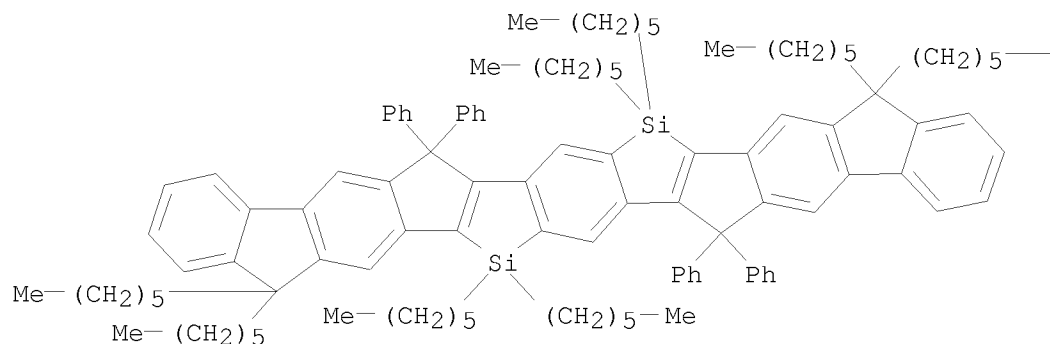
RL: MSC (Miscellaneous)

(chemical and fluorescence of silicon-containing ladder π -conjugated systems)

RN 848155-68-0 CAPLUS

CN Bisbenz[5,6]-s-indaceno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole, 5,5,7,7,15,15,17,17-octahexyl-5,7,9,15,17,19-hexahydro-9,9,19,19-tetraphenyl- (9CI) (CA INDEX NAME)

PAGE 1-A



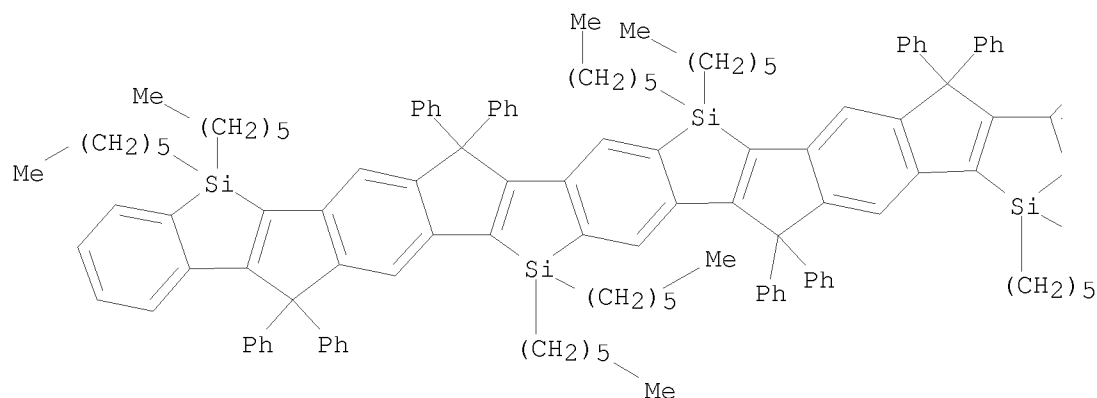
PAGE 1-B

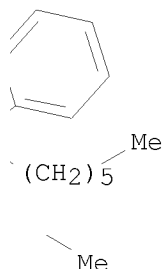
— Me

RN 848155-70-4 CAPLUS

CN Benzo[1''',2''':4'',5'';4''',5''':4'',5'']bissilolo[2'',3'':5,6; 2''',3''':5',6']di-s-indaceno[1,2-b:1',2'-b']bis[1]benzosilole, 5,5,9,9,16,16,20,20-octahexyl-5,7,9,11,16,18,20,22-octahydro-7,7,11,11,18,18,22,22-octaphenyl- (CA INDEX NAME)

PAGE 1-A





OS.CITING REF COUNT: 12 THERE ARE 12 CAPLUS RECORDS THAT CITE THIS
RECORD (12 CITINGS)
REFERENCE COUNT: 82 THERE ARE 82 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 15 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN
ACCESSION NUMBER: 2005:1178328 CAPLUS
DOCUMENT NUMBER: 144:88342
TITLE: Synthesis, structures, and photophysical properties of
silicon and carbon-bridged ladder
oligo(p-phenylenevinylene)s and related π -electron
systems
AUTHOR(S): Yamaguchi, Shigehiro; Xu, Caihong; Yamada, Hiroshi;
Wakamiya, Atsushi
CORPORATE SOURCE: Department of Chemistry, Graduate School of Science,
Nagoya University, Furo, Chikusa, Nagoya, 464-8602,
Japan
SOURCE: Journal of Organometallic Chemistry (2005), 690(23),
5365-5377
CODEN: JORCAI; ISSN: 0022-328X
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 144:88342

AB Partially or fully fused ladder oligo(p-phenylenevinylene)s (LOPVs) and
related π -electron systems were synthesized. Thus, the intramol.
reductive cyclization of o-silyl-substituted bis(phenylethynyl)benzenes
with Li naphthalenide produces partially Si-bridged bis(styryl)benzenes
consisting of silaindene or disilaindacene skeletons. By combining this
cyclization with the Friedel-Crafts type electrophilic cyclization, a
homologous series of the fully fused LOPVs and related compds., bearing Si
and C bridges, was synthesized in fairly good yields. The longest example
of the LOPVs is the 13-ring-fused system that has a nearly flat
 π -conjugated framework with a length of 2.9 nm, as proven by x-ray
crystallog. All the produced ladder π -electron systems show intense
fluorescence in the visible region with high quantum yields as well as
relatively small Stokes shifts. As the Si contents increase or the
disilaindacene skeleton is incorporated, the emission maxima shift to the
longer wavelengths and the fluorescent quantum yields slightly decrease.
These trends can be rationalized as due to the σ^* effect of Si,
wherein the Si bridges contribute to the electronic structure through

$\sigma^*-\pi^*$ orbital interaction that cause the red shifts in the emission maxima and suppress the radiative decay process from the singlet excited state.

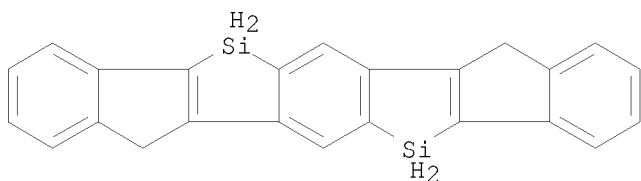
IT 872142-07-9

RL: PRP (Properties)

(DFT calcns. of LUMO; preparation, structure, and photophys. properties of silicon- and carbon-bridged ladder oligo(p-phenylenevinylene)s and related π -electron systems)

RN 872142-07-9 CAPLUS

CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
5,7,12,14-tetrahydro- (9CI) (CA INDEX NAME)



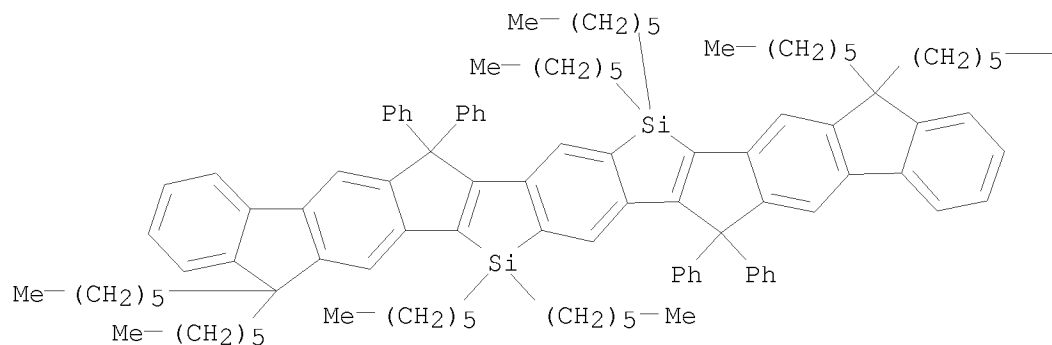
IT 848155-68-0P

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)

(crystal structure, radiative and non-radiative decay rate consts. for; preparation, structure, and photophys. properties of silicon- and carbon-bridged ladder oligo(p-phenylenevinylene)s and related π -electron systems)

RN 848155-68-0 CAPLUS

CN Bisbenz[5,6]-s-indaceno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
5,5,7,7,15,15,17,17-octahexyl-5,7,9,15,17,19-hexahydro-9,9,19,19-
tetraphenyl- (9CI) (CA INDEX NAME)

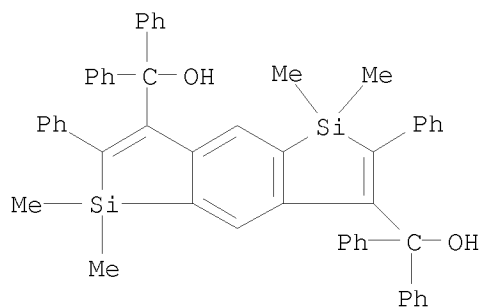


PAGE 1-A

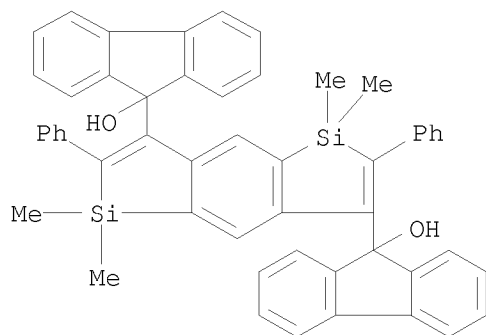
PAGE 1-B

— Me

IT 848155-64-6P 848155-71-5P 848155-76-0P
 872142-08-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation, structure, and photophys. properties of silicon- and
 carbon-bridged ladder oligo(p-phenylenevinylene)s and related
 π -electron systems)
 RN 848155-64-6 CAPLUS
 CN 1,5-Disila-s-indacene-3,7-dimethanol,
 1,5-dihydro-1,1,5,5-tetramethyl- $\alpha,\alpha,\alpha',\alpha'$,2,6-
 hexaphenyl- (CA INDEX NAME)

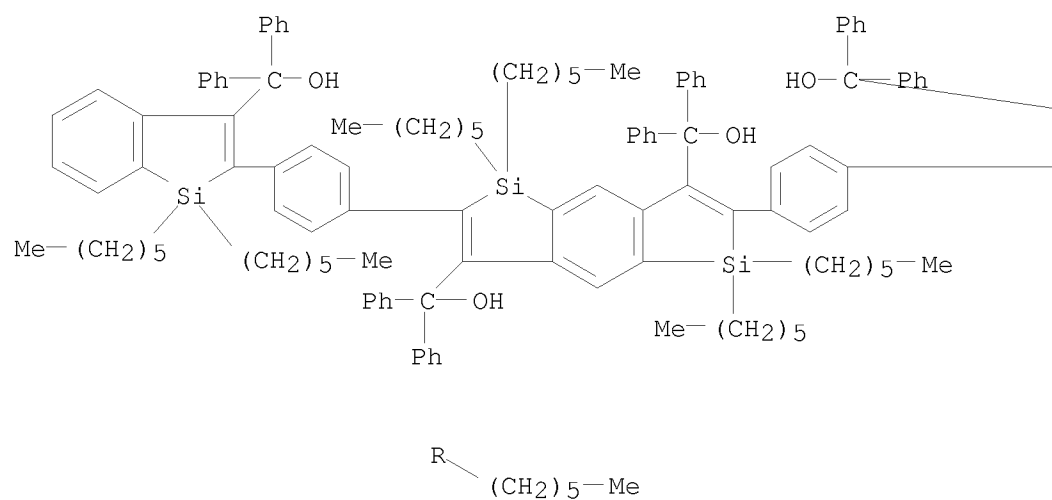


RN 848155-71-5 CAPLUS
 CN 9H-Fluoren-9-ol, 9,9'-(1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl-1,5-
 disila-s-indacene-3,7-diyl)bis- (9CI) (CA INDEX NAME)

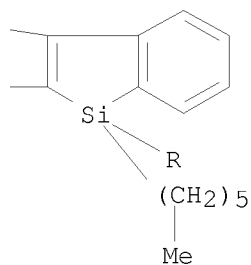


RN 848155-76-0 CAPLUS
 CN 1,5-Disila-s-indacene-3,7-dimethanol,
 2,6-bis[4-[1,1-dihexyl-3-(hydroxydiphenylmethyl)-1H-1-silainden-2-
 yl]phenyl]-1,1,5,5-tetrahexyl-1,5-dihydro-
 $\alpha,\alpha,\alpha',\alpha'$ -tetraphenyl- (9CI) (CA INDEX NAME)

PAGE 1-A

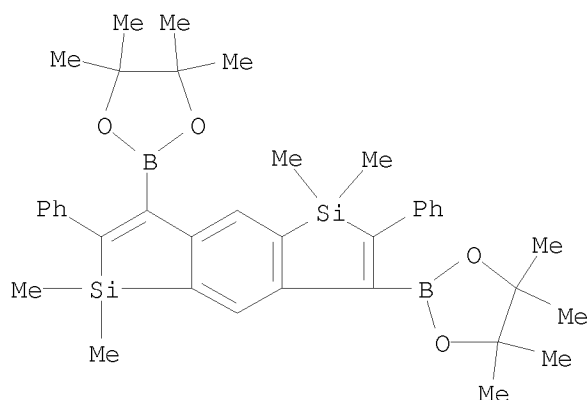


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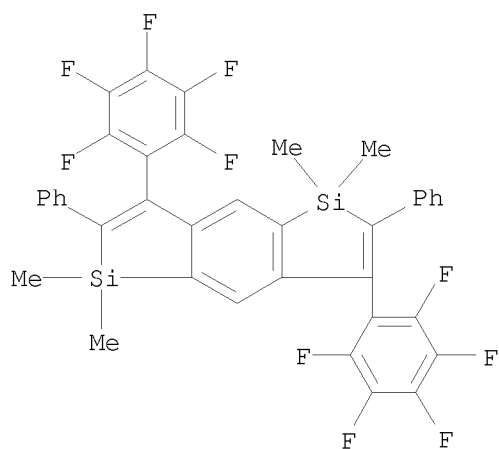


RN 872142-08-0 CAPLUS

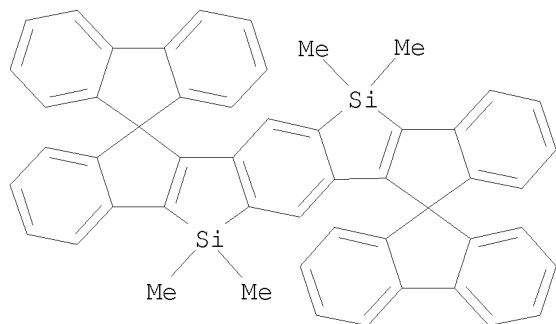
CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl-3,7-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)- (9CI) (CA INDEX NAME)



IT 794512-60-0P 848155-66-8P 872142-09-1P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation, structure, and photophys. properties of silicon- and
 carbon-bridged ladder oligo(p-phenylenevinylene)s and related
 π -electron systems)
 RN 794512-60-0 CAPLUS
 CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-3,7-
 bis(pentafluorophenyl)-2,6-diphenyl- (9CI) (CA INDEX NAME)

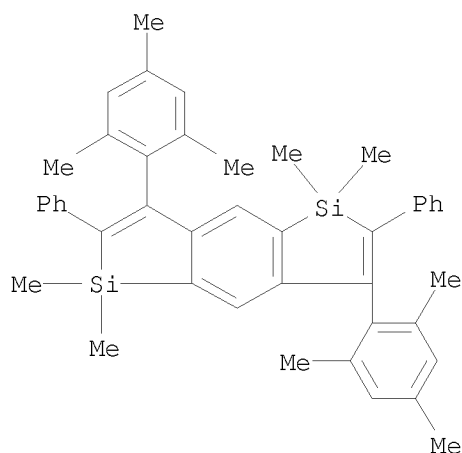


RN 848155-66-8 CAPLUS
 CN Dispiro[9H-fluorene-9,7'(14'H)-diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-
 b']bissilole-14',9''-[9H]fluorene],
 5',12'-dihydro-5',5',12',12'-tetramethyl- (CA INDEX NAME)



RN 872142-09-1 CAPLUS

CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl-3,7-bis(2,4,6-trimethylphenyl)- (9CI) (CA INDEX NAME)



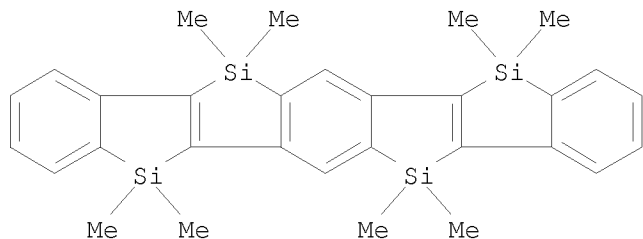
IT 625389-91-5

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); PROC (Process)

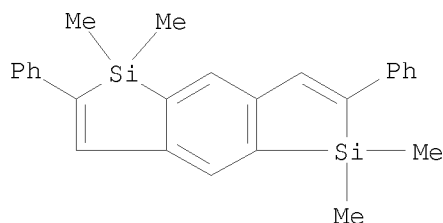
(radiative and non-radiative decay rate consts. for; preparation, structure, and photophys. properties of silicon- and carbon-bridged ladder oligo(p-phenylenevinylene)s and related π -electron systems)

RN 625389-91-5 CAPLUS

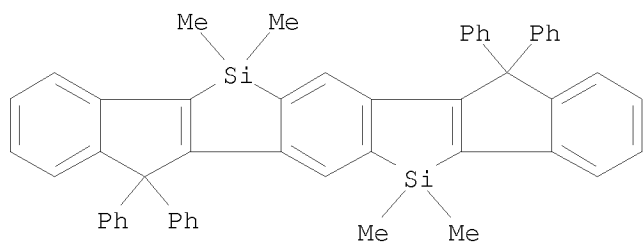
CN [1]Benzosilolo[3,2-b][1]benzosilolo[2',3':4,5]silolo[2,3-f][1]benzosilole, 5,7,12,14-tetrahydro-5,5,7,7,12,12,14,14-octamethyl- (CA INDEX NAME)



IT 794512-52-0P 848155-65-7P 848155-70-4P
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
 (radiative and non-radiative decay rate consts. for; preparation, structure, and photophys. properties of silicon- and carbon-bridged ladder oligo(p-phenylenevinylene)s and related π -electron systems)
 RN 794512-52-0 CAPLUS
 CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl- (9CI)
 (CA INDEX NAME)

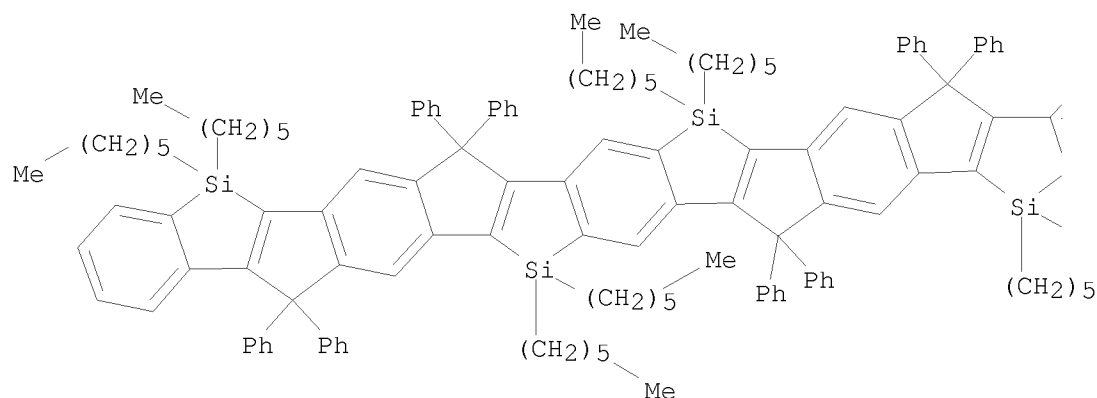


RN 848155-65-7 CAPLUS
 CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole, 5,7,12,14-tetrahydro-5,5,12,12-tetramethyl-7,7,14,14-tetraphenyl- (CA INDEX NAME)

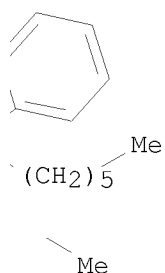


RN 848155-70-4 CAPLUS
 CN Benzo[1''',2''':4'',5'';4''',5''':4''',5''']bissilolo[2'',3'':5,6;2''',3''':5',6']di-s-indaceno[1,2-b:1',2'-b']bis[1]benzosilole, 5,5,9,9,16,16,20,20-octahexyl-5,7,9,11,16,18,20,22-octahydro-7,7,11,11,18,18,22,22-octaphenyl- (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



OS.CITING REF COUNT: 27 THERE ARE 27 CAPLUS RECORDS THAT CITE THIS RECORD (27 CITINGS)
REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 16 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:429419 CAPLUS

DOCUMENT NUMBER: 142:482144

TITLE: Preparation of silicon-containing polycyclic fused ring type π -conjugated organic materials, intermediate therefor, process for producing polycyclic fused ring type π -conjugated organic materials, and process for producing intermediate for polycyclic fused ring type π -conjugated organic materials

INVENTOR(S): Yamaguchi, Shigehiro; Xu, Caihong

PATENT ASSIGNEE(S): Japan Science and Technology Agency, Japan

SOURCE: PCT Int. Appl., 61 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005044826	A1	20050519	WO 2004-JP16433	20041105
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005154410	A	20050616	JP 2004-224771	20040730
JP 4552023	B2	20100929		
CA 2544427	A1	20050519	CA 2004-2544427	20041105
EP 1700860	A1	20060913	EP 2004-818199	20041105
R: DE, FR, GB, NL				
CN 1875024	A	20061206	CN 2004-80031650	20041105
CN 100457761	C	20090204		
CN 101456876	A	20090617	CN 2008-10184528	20041105
KR 2006111560	A	20061027	KR 2006-7011173	20060607
KR 757636	B1	20070910		
US 20090143605	A1	20090604	US 2008-578352	20081229
PRIORITY APPLN. INFO.:			JP 2003-378923	A 20031107
			JP 2004-224771	A 20040730
			CN 2004-80031650	A3 20041105
			WO 2004-JP16433	W 20041105

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 142:482144

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Silicon-containing polycyclic fused ring type π -conjugated organic materials (I) [Arl = each (un)substituted arylene, oligoarylene or divalent heterocyclic or oligoheterocyclic group; R1, R2 = H, alkyl, alkoxy, alkylthio, aryl, aryloxy, arylthio, arylalkyl, aryloxy, arylalkylthio, arylalkenyl, arylalkynyl, allyl, arylsulfonyloxy, alkylsulfonyloxy, heterocyclyl, halo, each (un)substituted NH2, silyl, or silyloxy; R3 = H, alkyl, alkylthio, aryl, arylthio, arylalkyl, arylalkylthio, arylalkenyl, arylalkynyl, allyl, hydroxyalkyl, halomagnesium, halozinc, boric acid or its ester, boryl, heterocyclyl, halo, each (un)substituted hydroxymethyl, silyl, or stannyl; R4 = H, alkyl, alkoxy, alkylthio, aryl, aryloxy, arylthio, arylalkyl, arylalkoxy, arylalkylthio, arylalkenyl, arylalkynyl, allyl, allylsulfonyloxy, alkylsulfonyloxy, heterocyclyl, halo, substituted boryl, each (un)substituted NH2, silyl, or silyloxy; l = 0,1; n = 0-4] are prepared These compds., e.g. 1,4-bis(1,1-dimethyl-1H-1-silainden-2-yl)benzene derivs. (II) [E = H, Me, SiMe2H, 4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl (BPin)] are obtained by

subjecting the starting material (III) to dimetalation with an organometallic base and trapping the resultant organometallic compound with an organosilicon reagent[(i) (1) n-BuLi or t-BuLi; (2) HMe₂SiCl] to obtain the intermediate (IV), subsequently reacting the intermediate with a metallic reducing agent to cause an intramol. reductive cyclization reaction to proceed to thereby yield a dianion intermediate, and then trapping the dianion intermediate with an electrophilic agent [(ii) (1) lithium naphthalenide (LiNaph) in THF at room temperature for 5 min; (2) electrophile or NH₄Cl]. The polycyclic fused ring type π -conjugated organic materials are excellent in luminescent properties and charge-transporting properties and useful as luminescent materials and charge-transporting materials with high luminescent efficiency and high charge-transporting efficiency, e.g. for electroluminescent devices (no data).

IT 848155-75-9P

RL: PRPH (Prophetic); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of π -conjugated silicon-containing polycyclic fused ring

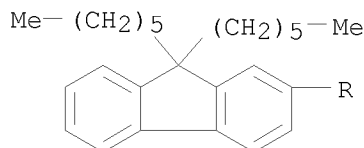
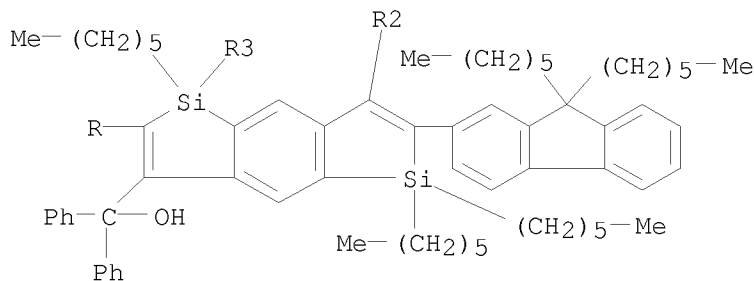
comps.

via intramol. reductive cyclization of
1,4-bis(2-silylphenylethynyl)benzene or
1,4-bis(phenylethynyl)-2,5-bis(silyl)benzene derivs.)

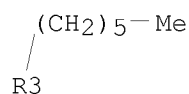
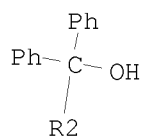
RN 848155-75-9 CAPLUS

CN 1,5-Disila-s-indacene-3,7-dimethanol,
2,6-bis(9,9-dihexyl-9H-fluoren-2-yl)-1,1,5,5-tetrahexyl-1,5-dihydro-
 $\alpha,\alpha,\alpha',\alpha'$ -tetraphenyl- (9CI) (CA INDEX NAME)

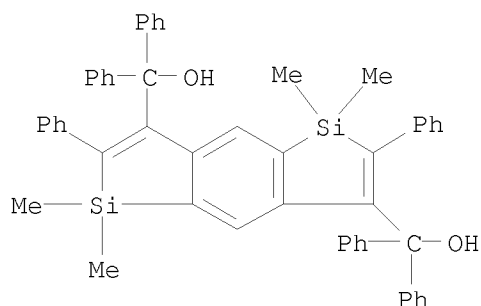
PAGE 1-A



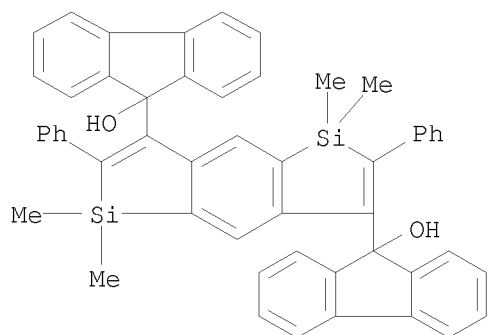
PAGE 2-A



IT 848155-64-6P 848155-71-5P 848155-76-0P
 852066-30-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of π -conjugated silicon-containing polycyclic fused ring
 compds.
 via intramol. reductive cyclization of
 1,4-bis(2-silylphenylethynyl)benzene or
 1,4-bis(phenylethynyl)-2,5-bis(silyl)benzene derivs.)
 RN 848155-64-6 CAPLUS
 CN 1,5-Disila-s-indacene-3,7-dimethanol,
 1,5-dihydro-1,1,5,5-tetramethyl- $\alpha,\alpha,\alpha',\alpha'$,2,6-
 hexaphenyl- (CA INDEX NAME)



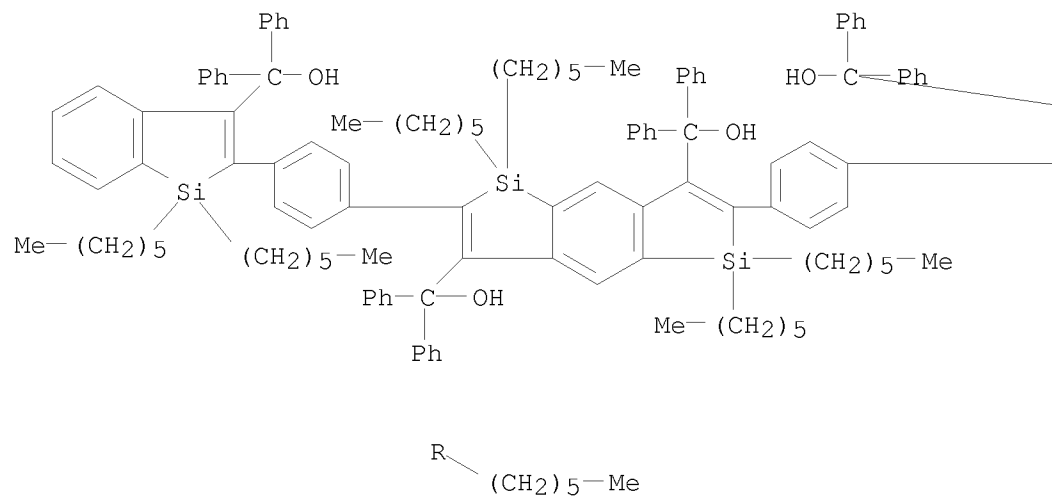
RN 848155-71-5 CAPLUS
 CN 9H-Fluoren-9-ol, 9,9'-(1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl-1,5-
 disila-s-indacene-3,7-diyl)bis- (9CI) (CA INDEX NAME)

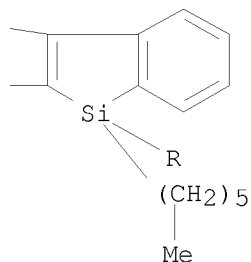


RN 848155-76-0 CAPLUS

CN 1,5-Disila-s-indacene-3,7-dimethanol,
 2,6-bis[4-[1,1-dihexyl-3-(hydroxydiphenylmethyl)-1H-1-silainden-2-yl]phenyl]-1,1,5,5-tetrahexyl-1,5-dihydro-
 $\alpha,\alpha,\alpha',\alpha'$ -tetraphenyl- (9CI) (CA INDEX NAME)

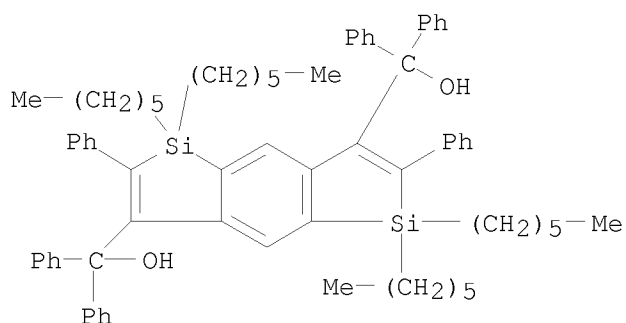
PAGE 1-A





RN 852066-30-9 CAPLUS

CN 1,5-Disila-s-indacene-3,7-dimethanol,
1,1,5,5-tetrahexyl-1,5-dihydro- $\alpha,\alpha,\alpha',\alpha',2,6$ -
hexaphenyl- (9CI) (CA INDEX NAME)



IT 794512-52-0P 848155-65-7P 848155-66-8P

848155-68-0P 848155-70-4P 852066-31-0P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of π -conjugated silicon-containing polycyclic fused ring
comps.

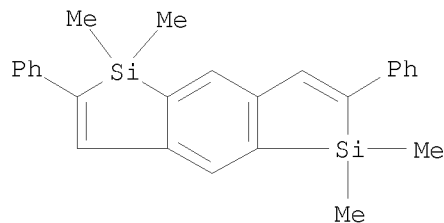
via intramol. reductive cyclization of

1,4-bis(2-silylphenylethynyl)benzene or

1,4-bis(phenylethynyl)-2,5-bis(silyl)benzene derivs.)

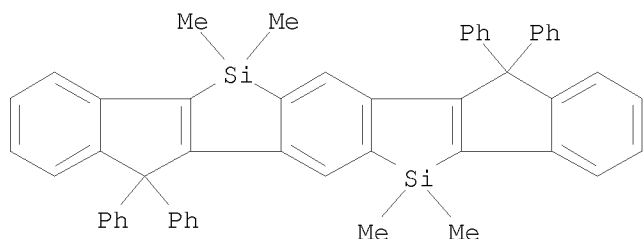
RN 794512-52-0 CAPLUS

CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl- (9CI)
(CA INDEX NAME)



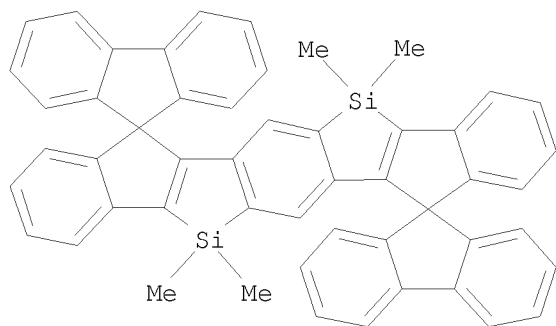
RN 848155-65-7 CAPLUS

CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
5,7,12,14-tetrahydro-5,5,12,12-tetramethyl-7,7,14,14-tetraphenyl- (CA
INDEX NAME)



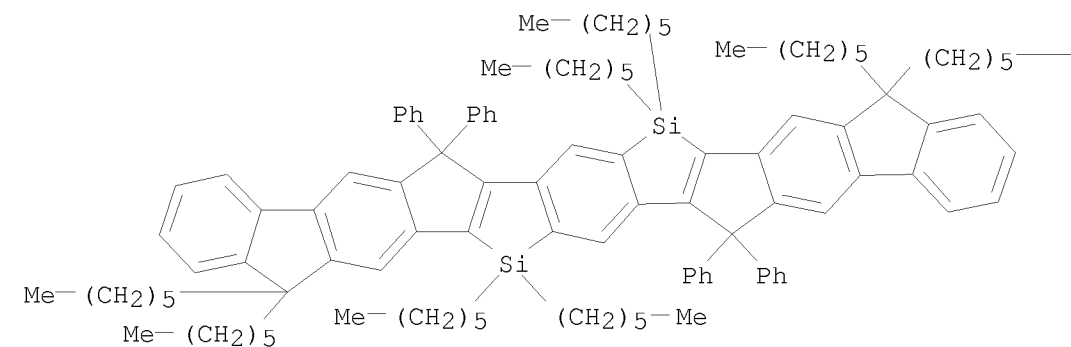
RN 848155-66-8 CAPLUS

CN Dispiro[9H-fluorene-9,7'(14'H)-diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole-14',9''-[9H]fluorene],
5',12'-dihydro-5',5',12',12'-tetramethyl- (CA INDEX NAME)



RN 848155-68-0 CAPLUS

CN Bisbenz[5,6]-s-indaceno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
5,5,7,7,15,15,17,17-octahexyl-5,7,9,15,17,19-hexahydro-9,9,19,19-
tetraphenyl- (9CI) (CA INDEX NAME)



PAGE 1-A

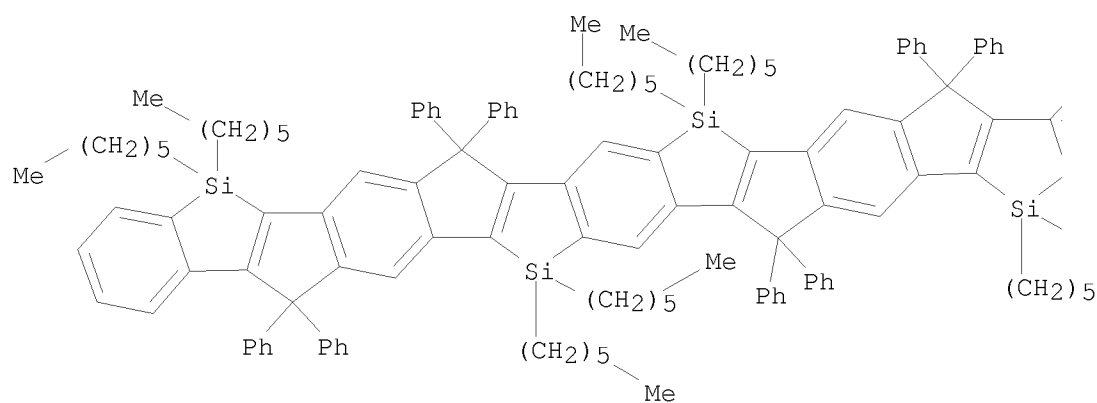
PAGE 1-B

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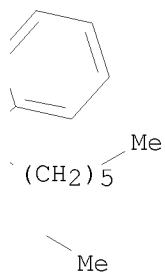
RN 848155-70-4 CAPLUS

CN Benzo[1''',2''':4'',5'';4''',5''':4'',5'']bissilolo[2'',3'':5,6;
2''',3''':5',6']di-s-indaceno[1,2-b:1',2'-b']bis[1]benzosilole,
5,5,9,9,16,16,20,20-octahexyl-5,7,9,11,16,18,20,22-octahydro-
7,7,11,11,18,18,22,22-octaphenyl- (CA INDEX NAME)

PAGE 1-A

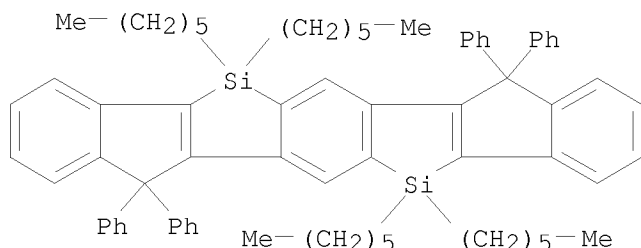


PAGE 1-B



RN 852066-31-0 CAPLUS

CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
5,5,12,12-tetrahexyl-5,7,12,14-tetrahydro-7,7,14,14-tetraphenyl- (9CI)
(CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(3 CITINGS)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 17 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2005:64272 CAPLUS

DOCUMENT NUMBER: 142:316892

TITLE: Ladder oligo(p-phenylenevinylene)s with silicon and carbon bridges

AUTHOR(S): Xu, Caihong; Wakamiya, Atsushi; Yamaguchi, Shigehiro

CORPORATE SOURCE: Department of Chemistry, Graduate School of Science, Nagoya University, Nagoya, 464-8602, Japan

SOURCE: Journal of the American Chemical Society (2005), 127(6), 1638-1639

CODEN: JACSAT; ISSN: 0002-7863

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 142:316892

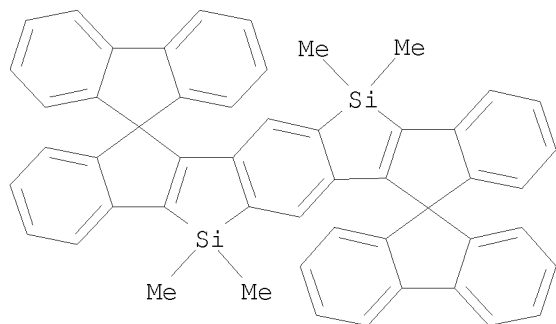
AB A general and versatile synthetic method for ladder oligo(p-phenylenevinylene)s (LOPVs) and related π -electron systems, having annelated π -conjugated structures with Si and C bridges, was developed from the combination of two cyclization reactions, i.e. The intramol. reductive cyclization of (o-silylphenyl)acetylene derivs. and the Friedel-Crafts-type cyclization. This methodol. allows the authors to synthesize a homologous series of the ladder mols. up to a 13-ring-fused system. The crystal structural anal. of the longest 13-ring-fused LOPV proves its nearly flat π -conjugated framework with a length of .apprx.2.9 nm. All the produced ladder π -electron systems show intense fluorescence in the visible region with high quantum yields as well as relatively small Stokes shifts.

IT 848155-66-8P 848155-70-4P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (crystal structure; preparation and Friedel-Crafts-type cyclization of bis[(hydroxymethyl)benzasilolyl]benzene in presence of boron trifluoride to give ladder oligo(p-phenylenevinylene)s with silicon and carbon bridges)

RN 848155-66-8 CAPLUS

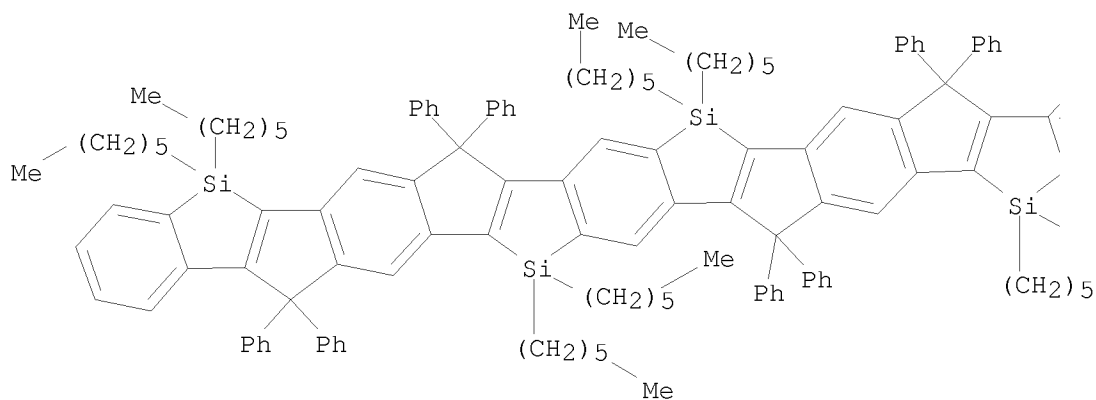
CN Dispiro[9H-fluorene-9,7'(14'H)-diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole-14',9''-[9H]fluorene], 5',12'-dihydro-5',5',12',12'-tetramethyl- (CA INDEX NAME)



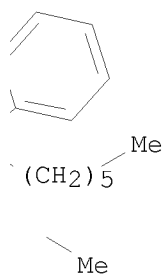
RN 848155-70-4 CAPLUS

CN Benzo[1''',2''':4'',5'';4''',5''':4'',5'']bissilolo[2'',3'':5,6;
2''',3''':5',6']di-s-indaceno[1,2-b:1',2'-b']bis[1]benzosilole,
5,5,9,9,16,16,20,20-octahexyl-5,7,9,11,16,18,20,22-octahydro-
7,7,11,11,18,18,22,22-octaphenyl- (CA INDEX NAME)

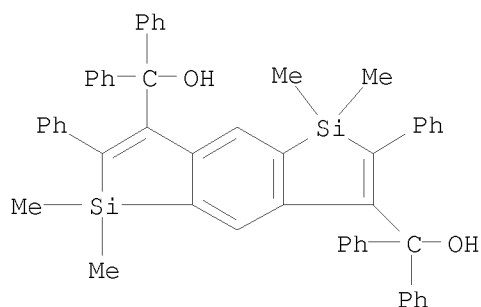
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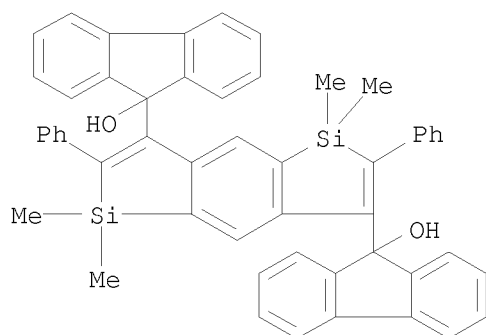
PAGE 1-B



IT 848155-64-6P 848155-71-5P 848155-75-9P
 848155-76-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and Friedel-Crafts-type cyclization of
 bis[(hydroxymethyl)benzasilolyl]benzene in presence of boron
 trifluoride to give ladder oligo(p-phenylenevinylene)s with silicon and
 carbon bridges)
 RN 848155-64-6 CAPLUS
 CN 1,5-Disila-s-indacene-3,7-dimethanol,
 1,5-dihydro-1,1,5,5-tetramethyl- $\alpha,\alpha,\alpha',\alpha'$,2,6-
 hexaphenyl- (CA INDEX NAME)

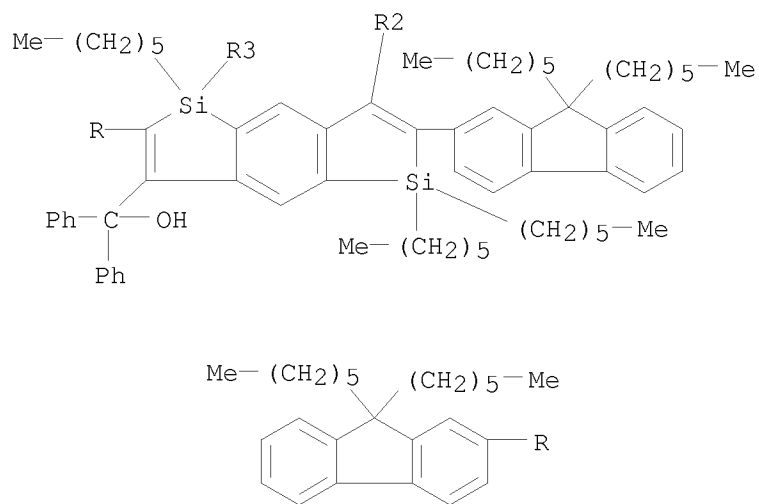


RN 848155-71-5 CAPLUS
 CN 9H-Fluoren-9-ol, 9,9'-(1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl-1,5-
 disila-s-indacene-3,7-diyl)bis- (9CI) (CA INDEX NAME)

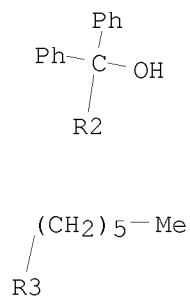


RN 848155-75-9 CAPLUS
 CN 1,5-Disila-s-indacene-3,7-dimethanol,
 2,6-bis(9,9-dihexyl-9H-fluoren-2-yl)-1,1,5,5-tetrahexyl-1,5-dihydro-
 $\alpha,\alpha,\alpha',\alpha'$ -tetraphenyl- (9CI) (CA INDEX NAME)

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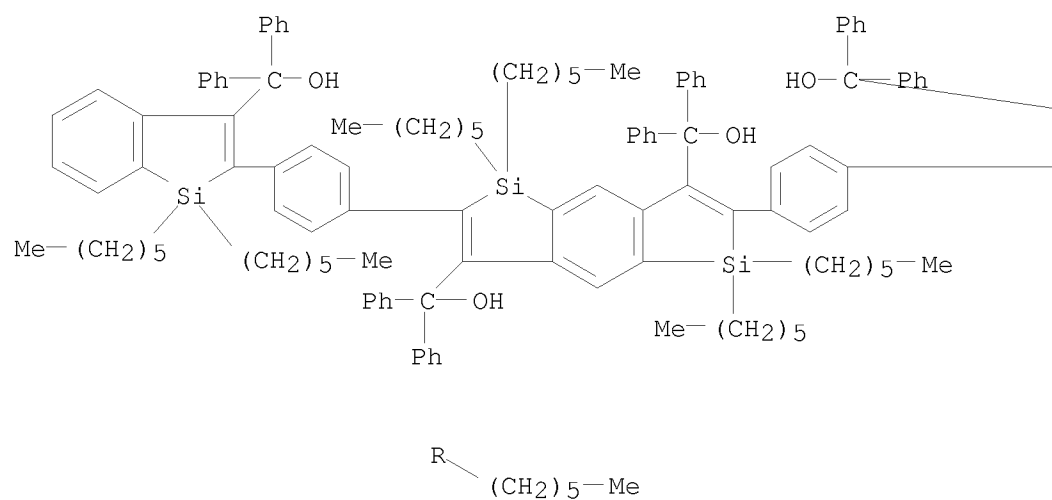


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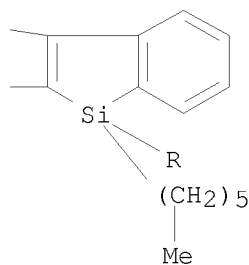


RN 848155-76-0 CAPLUS
 CN 1,5-Disila-s-indacene-3,7-dimethanol,
 2,6-bis[4-[1,1-dihexyl-3-(hydroxydiphenylmethyl)-1H-1-silainden-2-
 yl]phenyl]-1,1,5,5-tetrahexyl-1,5-dihydro-
 $\alpha,\alpha,\alpha',\alpha'$ -tetraphenyl- (9CI) (CA INDEX NAME)

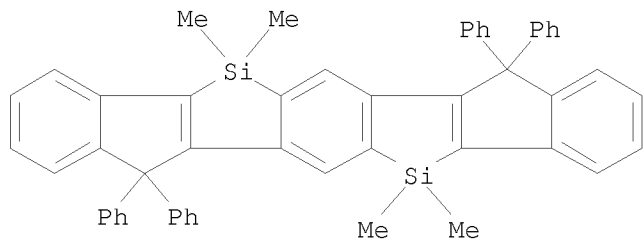
PAGE 1-A



PAGE 1-B



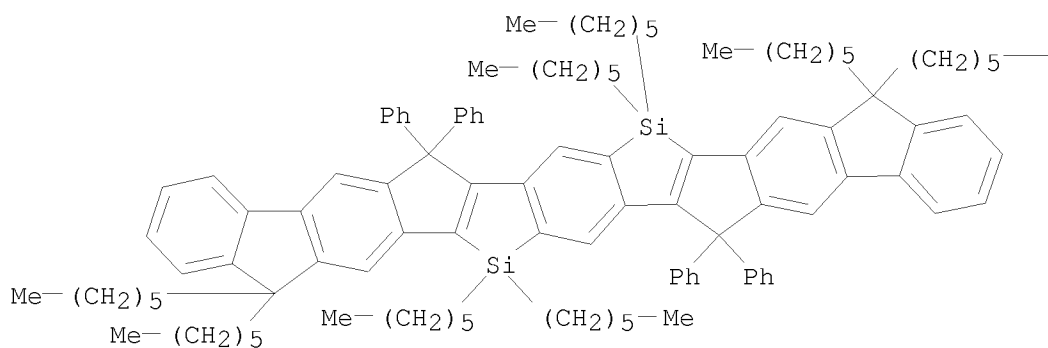
IT 848155-65-7P 848155-68-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and Friedel-Crafts-type cyclization of
 bis[(hydroxymethyl)benzasilolyl]benzene in presence of boron
 trifluoride to give ladder oligo(p-phenylenevinylene)s with silicon and
 carbon bridges)
 RN 848155-65-7 CAPLUS
 CN Diindeno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
 5,7,12,14-tetrahydro-5,5,12,12-tetramethyl-7,7,14,14-tetraphenyl- (CA
 INDEX NAME)



RN 848155-68-0 CAPLUS

CN Bisbenz[5,6]-s-indaceno[2,1-d:2',1'-d']benzo[1,2-b:4,5-b']bissilole,
5,5,7,7,15,15,17,17-octahexyl-5,7,9,15,17,19-hexahydro-9,9,19,19-
tetraphenyl- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

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OS.CITING REF COUNT: 45 THERE ARE 45 CAPLUS RECORDS THAT CITE THIS
RECORD (45 CITINGS)
REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 18 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:773153 CAPLUS

DOCUMENT NUMBER: 141:424228

TITLE: General Silaindene Synthesis Based on Intramolecular
Reductive Cyclization toward New Fluorescent
Silicon-Containing π -Electron Materials

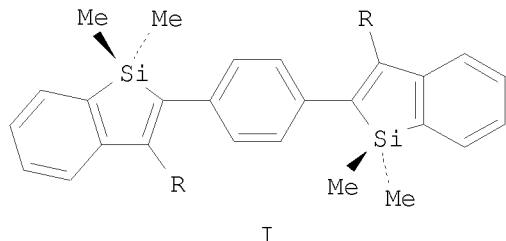
AUTHOR(S): Xu, Caihong; Wakamiya, Atsushi; Yamaguchi, Shigehiro
CORPORATE SOURCE: Department of Chemistry, Graduate School of Science,
Nagoya University, Nagoya, 464-8602, USA

SOURCE: Organic Letters (2004), 6(21), 3707-3710
CODEN: ORLEF7; ISSN: 1523-7060

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English
 OTHER SOURCE(S): CASREACT 141:424228
 GI

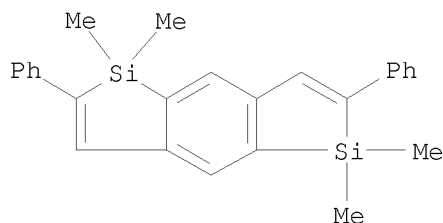


AB The reaction of (o-silylphenyl)acetylene derivs., e.g. 4-(2-Me₂SiHC₆H₄C.tplbond.C)2C₆H₄ with lithium naphthalenide undergoes intramol. reductive cyclization to produce various silaindene derivs., I (R = H, Me, SiMe₂H, Bpin, Br, C₆F₅), after quenching with electrophiles. On the basis of this methodol., a series of silaindene-containing π -electron systems are synthesized that show intense blue to greenish-blue fluorescence. The crystal structure of I (R = H) was determined

IT 794512-52-0P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (crystal structure; preparation of fluorescent silicon-containing π -electron materials via intramol. reductive cyclization of (silylphenyl)acetylenes)

RN 794512-52-0 CAPLUS

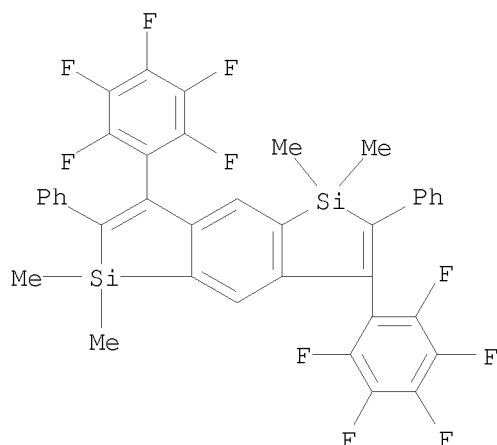
CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-2,6-diphenyl- (9CI)
 (CA INDEX NAME)



IT 794512-60-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of fluorescent silicon-containing π -electron materials via intramol. reductive cyclization of (silylphenyl)acetylenes)

RN 794512-60-0 CAPLUS

CN 1,5-Disila-s-indacene, 1,5-dihydro-1,1,5,5-tetramethyl-3,7-bis(pentafluorophenyl)-2,6-diphenyl- (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 26 THERE ARE 26 CAPLUS RECORDS THAT CITE THIS RECORD (26 CITINGS)
 REFERENCE COUNT: 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 19 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2004:182894 CAPLUS

DOCUMENT NUMBER: 140:217807

TITLE: π -conjugated organic material of polycyclic fused ring type, intermediate therefor, and process for producing π -conjugated organic material of polycyclic fused ring type

INVENTOR(S): Yamaguchi, Shigehiro; Xu, Caihong; Tamao, Kohei

PATENT ASSIGNEE(S): Japan Science and Technology Corporation, Japan

SOURCE: PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004018488	A1	20040304	WO 2003-JP10538	20030820
W: CN, JP, KR, US				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR				
EP 1548019	A1	20050629	EP 2003-792753	20030820
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, SK				
JP 4408416	B2	20100203	JP 2004-530587	20030820
US 20060100433	A1	20060511	US 2006-525221	20060118
US 7705174	B2	20100427		

PRIORITY APPLN. INFO.: JP 2002-244315 A 20020823

WO 2003-JP10538 W 20030820

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

AB The present invention relates to (i) a π -conjugated organic material of the polycyclic fused ring type which is obtained by reacting a linear

hydrocarbon comprising a triple bond and a hydrocarbon which is a benzene ring having an organosilicon as a substituent (an arylacetylene compound or phenylacetylene compound) with a metallic reducing agent to cause an intramol. reductive cyclization reaction to proceed between the silicon and a carbon having the triple bond and (ii) a process for producing the π -conjugated organic material of the polycyclic fused ring type. The π -conjugated organic material of the polycyclic fused ring type is applicable to luminescent materials, e.g., an organic electroluminescent (EL) element, and charge-transporting materials. Thus, 5.50 g bis[(2-bromo-5-methoxy)phenyl]acetylene and 29.8 mmol butyllithium hexane solution was mixed, 5.0 g N,N-diethylaminodimethylchlorosilane was added therein and reacted, and 3.7 mL Et alc. was added there to give 5.85 g bis(2-ethoxydimethylsilyl-5-methoxyphenyl)acetylene, 0.92 g of which was treated with 0.06 g lithium to give 0.53 g 2,7-dimethoxy-5,5,10,10-tetramethyl-5,10-disila-5,10-dihydroindeno[2,1-a]indene, 10.20 g of which was treated with sec-butyllithium, 0.67 g 1,2-diiodoethane was added therein to give 47.2 mg 2,7-diiodo-3,8-dimethoxy-5,5,10,10-tetramethyl-5,10-disila-5,10-dihydroindeno[2,1-a]indene, 50 mg of which was polymerized with 32 mg 1,4-bis(2-ethylhexyloxy)-2,5-diethynylbenzene in the presence of 9.7 mg tetrakis(triphenylphosphine)palladium and 3.3 mg cuprous iodide at 60° for 48 h to give a copolymer (yield 82%) with Mn 37,500.

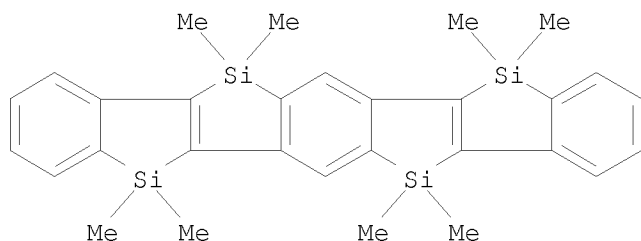
IT 625389-91-5P

RL: IMF (Industrial manufacture); PREP (Preparation)

(preparation of π -conjugated organic material of polycyclic fused ring type for producing π -conjugated organic materials)

RN 625389-91-5 CAPLUS

CN [1]Benzosilolo[3,2-b][1]benzosilolo[2',3':4,5]silolo[2,3-f][1]benzosilole, 5,7,12,14-tetrahydro-5,5,7,7,12,12,14,14-octamethyl- (CA INDEX NAME)



OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 20 OF 20 CAPLUS COPYRIGHT 2010 ACS on STN

ACCESSION NUMBER: 2003:829796 CAPLUS

DOCUMENT NUMBER: 139:395996

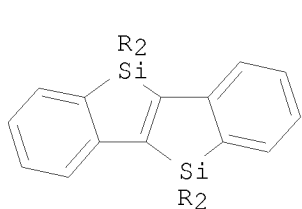
TITLE: Bis-Silicon-Bridged Stilbene Homologues Synthesized by New Intramolecular Reductive Double Cyclization

AUTHOR(S): Yamaguchi, Shigehiro; Xu, Caihong; Tamao, Kohei
CORPORATE SOURCE: Department of Chemistry, Graduate School of Science, Nagoya University, PRESTO, Japan Science and Technology Corporation (JST), Chikusa, Nagoya, 464-8602, Japan

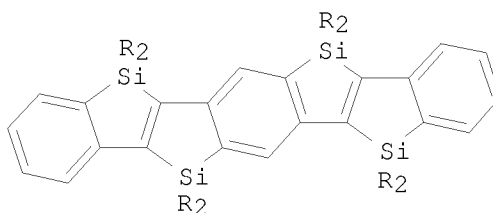
SOURCE: Journal of the American Chemical Society (2003),

PUBLISHER:
DOCUMENT TYPE:
LANGUAGE:
OTHER SOURCE(S):
GI

125(45), 13662-13663
CODEN: JACSAT; ISSN: 0002-7863
American Chemical Society
Journal
English
CASREACT 139:395996



I



II

AB A homologous series of bis-silicon-bridged stilbenes I and II was prepared by new intramol. reductive cyclization of bis(o-silyl)-diphenylacetylene. The reaction of bis(2-dimethylsilylphenyl)acetylene or bis[2-(ethoxydimethylsilyl)phenyl]acetylene with excess lithium naphthalenide gave I, R = Me (2a) as a result of the two-electron reduction at the acetylene moiety and double cyclization in a 5-exo mode of the dianion intermediate; similar reaction of bis(2-diphenylsilylphenyl)acetylene produced I, R = Ph (2b). This methodol. was also applied to the preparation of tetrakis-silicon-bridged bis(styryl)benzenes II (9, R = Me), starting from 1,4-dibromo-2,5-bis(2-bromophenylethynyl)benzene. The silicon-bridged π -conjugated systems thus prepared show intense fluorescence in the visible region. Comparison of a bis-silicon-bridged stilbene with its carbon analog demonstrates the substantial effects of the silicon-bridges on the electronic structures and thus on the fluorescence properties.

IT 625389-92-6P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(crystal structure; preparation, structure and photophys. properties of
bis-silicon-bridged stilbenes)

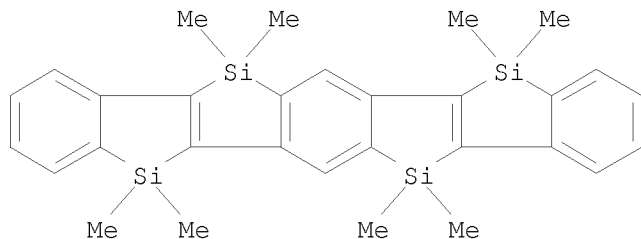
RN 625389-92-6 CAPLUS

CN [1]Benzosilolo[3,2-b][1]benzosilolo[2',3':4,5]silolo[2,3-f][1]benzosilole,
5,7,12,14-tetrahydro-5,5,7,7,12,12,14,14-octamethyl-, compd. with benzene
(1:3) (CA INDEX NAME)

CM 1

CRN 625389-91-5

CMF C30 H34 Si4



CM 2

CRN 71-43-2

CMF C6 H6

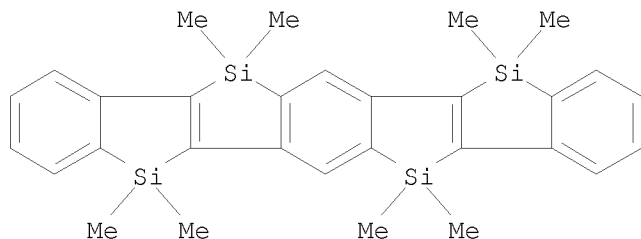


IT 625389-91-5P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(mol. structure, fluorescence spectra; preparation, structure and photophys.
properties of bis-silicon-bridged stilbenes)

RN 625389-91-5 CAPLUS

CN [1]Benzosilolo[3,2-b][1]benzosilolo[2',3':4,5]silolo[2,3-f][1]benzosilole,
5,7,12,14-tetrahydro-5,5,7,7,12,12,14,14-octamethyl- (CA INDEX NAME)



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OS.CITING REF COUNT:      65   THERE ARE 65 CAPLUS RECORDS THAT CITE THIS
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10/578,352

11/24/2010

STN: SEARCH

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	117.70	309.95
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-17.00	-17.00

STN INTERNATIONAL LOGOFF AT 08:56:25 ON 24 NOV 2010